Curriculum VITAE

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EDUCATION

University of Nebraska-Lincoln	Ph.D.	1990	Education: Psychological & Cultural Studies
			Major: Learning, Cognition, Development
			Minor: Statistics and Measurement
University of Nebraska-Lincoln	M.S.	1985	Human Development and the Family
University of Nebraska-Lincoln	B.S.E.	1976	Social Studies, History, Psychology

PROFESSIONAL EXPERIENCE

2018-Current **Emeritus Research Professor,**
Department of Educational Psychology, University of Nebraska-Lincoln, Lincoln, NE

2012-2018 **Research Professor and Graduate Faculty Member,**
Department of Educational Psychology, University of Nebraska-Lincoln, Lincoln, NE

Conducted funded research and program evaluation. Collaborated with faculty and staff at the University and in the community to design and conduct program development, research, and evaluation. Collaborated on development and writing of grant and contract proposals for external funding.

Served on Masters and Doctoral committees: Four completed Doctoral committees; One Completed Educational Specialist Committee; Five completed Masters committees.

Nebraska Prevention Center for Alcohol and Drug Abuse, University of Nebraska-Lincoln

2012-2018: Provided statistical and research support to faculty and graduate students in the Nebraska Prevention Center for Alcohol and Drug Abuse and Health Behavior Program in Cognition, Learning and Development. Duties included assisting faculty and students in conducting research, doing data analysis, writing of reports and publications, and grant writing.

2012-2018: Served as evaluator for the Nebraska Collegiate Consortium to Reduce High-Risk Drinking a Federal and State grant funded project to replicate the NU Directions project at other Nebraska post-secondary institutions. Duties included overseeing statewide and institutional survey data collection, assisting development of Web-based brief intervention tools for addressing student drinking, grant writings, and report preparation.

2003-2012 **Research Associate Professor,**
Department of Educational Psychology, University of Nebraska-Lincoln, Lincoln, NE
Nebraska Prevention Center for Alcohol and Drug Abuse, University of Nebraska-Lincoln

2003-2008: Served as evaluator for NU Directions funded by the Robert Wood Johnson Foundation as part of the national "A Matter of Degree" program to reduce high-risk drinking among college

students. Duties included conducting local level evaluations and statistical data analyses for NU Directions project staff and collaborating in writing publications and conference presentations.

2005-2012: Served as evaluator for the Nebraska Collegiate Consortium to Reduce High-Risk Drinking a Federal and State grant funded project to replicate the NU Directions project at other Nebraska post-secondary institutions. Duties included overseeing statewide and institutional survey data collection, assisting development of Web-based brief intervention tools for addressing student drinking, grant writings, and report preparation.

Survey, Statistics, and Psychometrics Core Facility, University of Nebraska-Lincoln

2005-2007: Provided statistical, research, and evaluation support to faculty and graduate students at the University. Assist faculty and staff in project evaluation, research design, and grant writing. Conduct workshops on statistical, methodological, and evaluation topics.

1996-2003	**Research Assistant Professor,**	

Department of Health and Human Performance, University of Nebraska-Lincoln, Lincoln, NE
Nebraska Prevention Center for Alcohol and Drug Abuse, University of Nebraska-Lincoln

1999-2003: Served as site evaluator for NU Directions, a five-year project, renewed for an additional four years, funded by the Robert Wood Johnson Foundation as part of the national "A Matter of Degree" program to reduce high-risk drinking among college students. Worked jointly with UNL and the Harvard School of Public Health (HSPH), the national evaluator for the A Matter of Degree program, as local NU Directions Evaluator. Primary duties are were to collect local data including a variety of public health surveillance data and documentation of project activities, for HSPH and project staff and write case study analyses of the UNL project efforts. Duties also included conducting local level evaluations and statistical data analyses for UNL project staff.

Center for Instructional Innovation and Department of Physics, University of Nebraska-Lincoln

2000-2005: Conducted evaluation and research for the educational components of the Cosmic Ray Observatory Project (CROP), a five-year project funded by the National Science Foundation. Duties include designing the evaluation plan and writing the evaluation section of the grant proposal, designing research and evaluation instrumentation, conducting data collection and analysis, writing research reports and publications, and collaborating with project staff, K-12 teachers, undergraduate and graduate college students, and high-school students on project evaluation and development activities.

1996-1998: Coordinated research and evaluation activities for the CLASS Project, a multi-year Federal Department of Education grant to develop Internet-based, multimedia, high-school courses. Duties included development of evaluation plan, designing specific research and evaluation projects, conducting interviews with project professional staff, conducting data analysis, writing research and evaluation reports, supervising graduate students in conduct of research and evaluation activities, and consulting with CLASS project instructional design personnel on instructional design strategies and techniques.

1999-2000	**Lecturer,**	

Department of Educational Psychology, University of Nebraska-Lincoln, Lincoln, NE

Taught the Educational Psychology course Human Cognition and Instruction (EDPS 454-854), a senior level undergraduate and introductory graduate course in cognitive and educational psychology. Taught one section each fall and spring semesters of the 1999-2000 academic year.

1990-1996	**Assistant Professor**,	

Department of Educational Psychology, The University of Texas at Austin, Austin, TX

Taught the following undergraduate and graduate courses:

Undergraduate:	Cognition, Human Learning, and Motivation
	Applied Human Learning
	Foundations of Psychology for Education
Graduate:	Psychology of Human Learning
	Psychology of Learning
	Instructional Psychology
	Psychology of Computers in Education
	Learning: Systems and Issues

Supervised 3 Doctoral dissertations and 2 Masters theses and served on 17 Doctoral and 3 Masters supervisory committees in Educational Psychology, Instructional Technology, Science Education, and Foreign Language Education. Supervised graduate students in funded research projects and independent research/study credit courses. Also, supervised numerous graduate students working as members of my collaborative research teams. Additional duties included conducting and publishing independent research, collaborating with post-secondary and K-12 faculty and administration on grant proposals and projects, consulting with faculty and graduate students on research design and analysis, presenting workshops and talks on instruction and learning, serving on department and college committees, and serving in a variety of capacities for professional organizations.

1989-1990   **Research Coordinator**,
Project InfoNet, University of Nebraska-Lincoln, Lincoln, NE

Coordinated research and development activities for Project InfoNet, a Federal Department of Education grant to develop a CD-ROM network adapted for use by persons with disabilities. Had lead role in writing the original grant proposal, including design of research and evaluation plans and design of the technological specifications for the network. Did primary system programing for the network, which was one of the first CD-ROM based networks in the country, and supervised technical personnel in network set-up, programming, and maintenance. Duties included supervising graduate students in conduct of research activities, conducting data collection and analysis, writing research and technical reports for publication, and collaborating with K-12 teachers and administrators in field testing sites.

1985-1988   **Graduate Research Assistant**,
Project Interact, University of Nebraska-Lincoln, Lincoln, NE

1988: Coordinated development activities for Project Interact, an IBM funded project to develop an interactive, multimedia system to enhance the reading comprehension of persons with disabilities. Conducted research and development work leading to design of a prototype system.

Educational Center for Disabled Students, University of Nebraska-Lincoln

1985-1987: Conducted research and development activities for the Educational Center for Disabled Students, a Federal Department of Education funded grant to develop and deliver adaptive and augmentative computer technology and associated support services to enhance the educational achievement of persons with disabilities.

1984-1988   **Graduate Teaching Assistant**,
Department of Educational Psychology, University of Nebraska-Lincoln, Lincoln, NE

1987-1988: Taught the undergraduate Educational Psychology course "EDPS362: Learning in the Classroom", a course covering classroom applications of cognition, learning, testing and measurement. Had full responsibility for the course as instructor of record.

Department of Human Development and the Family, University of Nebraska-Lincoln

1984-1985: Assisted faculty in teaching distance education courses in Adolescence and Middle

Childhood at multi-campus sites. Duties included preparing course materials, grading exams and assignments, presenting lectures, and supervising classrooms at remote sites.

1984-1985   **Graduate Assistant and Coordinator**,
Symposium on Building Family Strengths, Department of Human Development and the Family, University of Nebraska-Lincoln, Lincoln, NE

Assisted faculty in coordinating the annual Symposium on Building Family Strengths. Duties included assisting in review and selection of papers for presentation, coordinating program scheduling, and coordinating symposium operation. Developed computerized data base for program scheduling and management.

1982-1983   **Instructor Computer Programming**,
Southeast Community College, Milford, NE

Taught courses in the following:
  Basic Assembler Programming Language
  Advanced Assembler Programming Language
  Computer Operations
   BASIC
   FORTRAN

Also, supervised laboratory periods, developed new curriculum, and collaborated with faculty on program development.

1981-1982   **Family-Teacher - Transitional Living Program**,
Father Flanagan's Boys and Girls Home, Boys Town, NE

Supervised the Transitional Living Program for youth preparing to graduate from the Boys' Town residential treatment program. Had primary responsibility for initial design and development of this new program in cooperation with the Boys Town, Department of Continuing Care. Created initial program operational and treatment plans, and developed program curriculum. Additional duties included treatment delivery and counseling of youth in program, evaluation of program effectiveness, and overseeing program operation and budget.

1976-1980   **Instructor Business Education (Part Time)**,
Security Mutual Life Nebraska, Lincoln, NE

Taught courses in basic business and basic insurance principles to employees as part of the Life Office Management Association, FLMI insurance industry degree program. Prepared course outlines, tests and quizzes, and supplemental instructional materials.

1977-1981   **Systems Analyst/Programmer**,
Security Mutual Life Nebraska, Lincoln, NE

Designed and wrote computer systems and programs. Consulted with user departments to develop system needs and specifications. Also, had significant responsibility for data base development and system level data base programming. Wrote end-user and operations technical manuals and provided written documentation of programs and systems.

1974-1977   **Computer Operator**,
Security Mutual Life Nebraska, Lincoln, NE

Did mainframe system operations, including scheduling and job control. Also, taught operations to new operator hires.

REFEREED JOURNAL ARTICLES

Flanigan, A. E., Peteranetz, M. S., Shell, D. F., & Soh, L.-K. (2022). *Shifting beliefs in computer science: Change in CS student mindsets. ACM Transactions on Computing Education. 22*(2), 1-20. https://doi.org/10.1145/3471574

Peteranetz, M. S., Soh, L.-K., Shell, D. F., & Flanigan, A. E. (2021). *Motivation and Self-Regulated Learning in Computer Science: Lessons Learned from A Multi-Year Program of Classroom Research.* IEEE Transactions on Education, 64(3), 317-326. DOI: 10.1109/TE.2021.3049721

Shell, D. F., Newman, I. M, & Yuen, L.-W. (2020). Can web-based preenrollment alcohol brief interventions be effective screening tools? Precollege drinking behavior predicts college retention and alcohol violations. *Journal of American College Health, 68*(7), 762-773. DOI: 10.1080/07448481.2019.1590369

Shell, D. F., & Newman, I. M. (2019). Effects of a web-based, pre-enrollment alcohol brief motivational intervention on college student retention and alcohol-related violations. *Journal of American College Health, 67*(3), 263-274. DOI: 10.1080/07448481.2018.1481072

Qian, L., Newman, I. M., Yuen, L.-W., Du, W., & Shell, D. F., (2019). Effects of a comprehensive nutrition education programme to change Grade 4 primary school students' eating behaviors in China. *Public Health Nutrition, 22*(5), 903-911. https://doi.org/10.1017/S1368980018003713

Zhang, F., Yuen, L.-W., Ding, L., Newman, I. M., & Shell, D. F. (2018). Pilot study of a brief WeChat intervention in China to increase students' willingness to assist a flushing student to reduce alcohol use. *Journal of Preventive Medicine and Public Health*, *51*(6), 320-325. https://doi.org/10.3961/jpmph.18.127

Qian, L., Newman, I. M., Yuen, L.-W., Shell, D. F., & Xu, J. (2018). Variables associated with alcohol consumption and abstinence among young adults in central China. *International Journal of Environmental Research and Public Health, 15*(8), 1675(16 pages); doi:10.3390/ijerph15081675 .

Qian, L., Yuen, L.-W., Feng, Y., Newman, I. M., Shell, D. F., & Du, W. (2018). Effect of a comprehensive health education program to increase physical activity among primary school students in China. *Advances in Physical Education, 8*, 193-204. DOI: 10.4236/ape.2018.82018

Ding, L., Yuen, L.-W., Newman, I. M., & Shell, D. F. (2018). University students' willingness to assist fellow students who experience alcohol-related facial flushing to reduce their drinking. *International Journal of Environmental Research and Public Health, 15,* 850(13 pages). doi:10.3390/ijerph15050850.

Peteranetz, M. S., Flanigan, A. E., Shell, D. F., & Soh, L.-K. (2018). Helping engineering students learn in introductory computer science (CS1) using computational creativity exercises (CCEs). *IEEE Transactions on Education* [Special Issue on Computer Science Education for Engineers], 61(3),195-203. DOI: 10.1109/TE.2018.2804350

Peteranetz, M. S., Flanigan, A. E., Shell, D. F., & Soh, L.-K. (2018). Career aspirations, perceived instrumentality, and achievement in undergraduate computer science courses. *Contemporary Educational Psychology, 53*, 27-44. https://doi.org/10.1016/j.cedpsych.2018.01.006

Ding, L, Newman, I. M., Buhs, E., & Shell, D. F. (2018). Influence of peer pressure and self-efficacy for alcohol self-regulation on Chinese university physical education students' drinking behavior. *Advances in Physical Education, 8*, 46-57. https://doi.org/10.4236/ape.2018.81006

Wei, S., Yin, P., Newman, I. M., Qian, L., Shell, D. F., & Yuen, L.-W. (2017). Comparison of patterns of use of unrecorded and recorded spirits: Survey of adult drinkers in rural central China. *International Journal of Environmental Research and Public Health*, 14, 1099(10 pages); doi:10.3390/ijerph14101099

Peteranetz, M. S., Flanigan, A. E., Shell, D. F., & Soh, L.-K. (2017). Computational creativity exercises: An avenue for promoting learning in computer science. *IEEE Transactions on Education, 60*(4), 305-313. DOI: 10.1109/TE.2017.2705152

Qian, L., Zhang, F., Newman, I. M., Shell, D. F., & Du, W. (2017). Effects of selected socio-demographic characteristics on nutrition knowledge and eating behavior of elementary students in two provinces in China. *BMC Public Health, 18*, 21(8 pages). DOI 10.1186/s12889-017-4580-5.

Newman, I. M., Ding, L., Shell, D. F., & Lin, L. (2017). How social reactions to alcohol-related facial flushing are affected by gender, relationship, and drinking purpose: Implications for education to reduce aerodigestive cancer risks. *International Journal of Environmental Research and Public Health*, *14*, 622 (11 pages); doi:10.3390/ijerph14060622

Flanigan, A. E., Peteranetz, M. S., Shell, D. F., & Soh, L.-K. (2017). Implicit intelligence beliefs of computer science students: Exploring change across the semester. *Contemporary Educational Psychology, 48,* 179-196. http://dx.doi.org/10.1016/j.cedpsych.2016.10.003. **[Listed in Most Cited CEP articles since 2017** accessed 5-11-20; https://www.journals.elsevier.com/contemporary-educational-psychology/most-cited-articles]

Newman, I. M., Ding, L. Y., Pu, J., Shell, D. F., Qian, L. (2016). 高中生,饮酒行为、抑郁状态与自杀意念之间的关系 [Drinking, depression, and suicide intentions among Chinese adolescents]. Zhongguo Xue Xiao Wei Sheng [Chinese Journal of School Health], 37(10-B):132–135.

Wang, S., Newman, I. M., & Shell, D. F. (2016). Cultural orientation and its associations with alcohol use by university students in China. *PLoS ONE 11*(11): e0165858. doi:10.1371/journal.pone.0165858.

Shell, D. F., Soh, L.-K., & Chiriacescu, V. (2015). Modeling self-efficacy as a dynamic cognitive process with the Computational-Unified Learning Model (C-ULM): Implications for cognitive informatics and cognitive computing. *International Journal of Cognitive Informatics and Natural Intelligence, 9*(3), 1-24. DOI: 10.4018/IJCINI.2015070101

Soh, L.-K., Shell, D. F., Ingraham, E., Ramsay, S, & Moore, B. (2015). Viewpoint learning through computational creativity: Improving learning and achievement in introductory computer science by incorporating creative thinking into the curriculum. *Communications of the ACM, 58*(8), 33-35. DOI: 10.1145/2699391

Shell, D. F., Newman, I. M., Cordova-Cazar, A. L., & Heese, J. M. (2015*).* Driver education and teen crashes and traffic violations in the first two years of driving in a graduated licensing system. *Accident Analysis & Prevention, 82*, 45-52. DOI: 10.1016/j.aap.2015.05.011 [**Most downloaded articles from AAP in last 90 days through 2017**].

Flowerday, T., & Shell, D. F. (2015). Disentangling the effects of interest and choice on learning, engagement, and attitude. *Learning and Individual Differences, 40,* 134-140. DOI: 10.1016/j.lindif.2015.05.003

Nelson, K. G., Shell, D. F., Husman, J., Fishman, E., & Soh, L.-K. (2015). Motivational and self-regulated learning profiles of students taking a foundational engineering course. *Journal of Engineering Education, 104*(1), 74-100. DOI: 10.1002/jee.20066 [**Most cited article from Journal of Engineering Education in 2015-2016**]

Newman, I. M., Shell, D. F., Huang, Zhaoqing, & Qian, Ling [钱羚, (2015). The educational potential of alcohol-related facial flushing among Chinese young people. *Drugs: Education, Prevention & Policy, 22*(1), 52-59. DOI: 10.3109/09687637.2014.979764

Newman, I. M., Huang, Zhaoqing, Shell, D. F., & Qian, Ling [钱羚 (2014). The survey of drinking patterns of university students. *Chinese Journal of Social Medicine, 31*, 105-108.

Chiriacescu, V., Soh, L.K., & Shell D. F. (2013). Understanding human learning using a multi-agent simulation of the Unified Learning Model. *International Journal of Cognitive Informatics and Natural Intelligence, 7*(4), 1-25. DOI: 10.4018/ijcini.2013100101

Shell, D. F., & Soh, L.K. (2013). Profiles of motivated self-regulation in college computer science courses: Differences in major versus required non-major courses. *Journal of Science Education and Technology*. *22*, 899-913. DOI 10.1007/s10956-013-9437-9.

Tang, H., Cai, W., Wang, H., Zhang, Q., Qian, L., Shell, D. F., Newman, I., & Yin, P. (2013). The association between cultural orientation and drinking behaviors among university students in Wuhan, China. *PLoS ONE*, *8*(1): e54796. doi:10.1371/journal.pone.0054796.

Qian, Ling [钱岭], Newman, I. M., Shell, D. F., & Cheng, M. (2012). Reducing overweight and obesity among elementary students in Wuhan, China. *International Electronic Journal of Health Education, 15,* 62-71.

Miller, L. D., Shell, D., Khandaker, N., & Soh, L. (2011). Teaching using computer games. *Journal of Educational Technology Systems, 39*(3), 321-343.

Shell, D. F., Newman, I. M, Perry, C. M., & Folsom, A. R. B. (2011). Changing intentions to use smokeless tobacco: An application of the IMB Model. *American Journal of Health Behavior, 35*, 568-580.

Shell, D. F., Snow, G. R., & Claes, D. R. (2011). The Cosmic Ray Observatory Project (CROP): Results of a summer high-school student, teacher, university scientist partnership using a capstone research experience. *Journal of Science Education and Technology, 20*, 161-177.

Mohammed, H. R., Zhang, Y. [张菊], Newman, I. M., & Shell, D. F. (2010). Waterpipe smoking in Kuwait. *Eastern Mediterranean Health Journal, 16*, 1115-1120.

Shell, D. F., Newman, I. M., & Fang, X. Y. (2010). The influence of cultural orientation, alcohol expectancies, and self-efficacy on adolescent drinking behavior in Beijing. *Addiction, 105*, 1608-1615.

Cheng, Y., Newman, I. M., Qu, M., Mbulo, L., Chai, Y., Chen, Y., & Shell, D. F. (2010). Being bullied and psychosocial adjustment among middle school students in China. *Journal of School Health, 80,* 193-199.

Shell, D. F., Newman, I. M., & Qu, M. (2009). Alcohol expectancies among high school students in Inner Mongolia, China. *Asia-Pacific Journal of Public Health, 21*, 433-441.

Soh, L -K., Samal, A., Scott, S., Moriyama, E., Meyer, G., Ramsay, S., Moore, B., Thomas, W. G., & Shell, D. F. (2009). Renaissance computing: An initiative for promoting student participation in computing. *ACM SIGSCE Bulletin, 41(1), 59-63.* DOI: 10.1145/1539024.1508885

Shell, D. F., & Husman, J. (2008). Control, motivation, affect, and strategic self-regulation in the college classroom: A multidimensional phenomenon. *Journal of Educational Psychology, 100,* 443-459.

Husman, J., & Shell, D. F. (2008). Beliefs and perceptions about the future: A measurement of future time perspective. *Learning and Individual Differences, 18*, 166-175.

Merrick, T. M., Zhang, Y. [张菊], Newman, I. M., Shell, D. F., Qian, L. [钱岭]. (2008). Dian xing xiang guan fen xi zai zhong guo qing shao nian jian kang xing wei ying xiang yin su tan tao zhong de ying yong [Multi-factor influences on Chinese youth health behaviors: Canonical correlation analysis on data from the Global School-Based Health Survey]. *Zhongguo Weisheng Tongji [Chinese Journal of Health Statistics], 25*, 114-116.

Xue, J., Newman, I. M., Shell, D. F., & Fang, X. (2007). 高中生饮酒行为的相关因素分析[Using logistic regression to predict adolescent alcohol use]. *Chinese Journal of Health Statistics*. 24(4), 386-387.

Smith, P. W., Hansen, K., Spanbauer, L., & Shell, D. F. (2007). Pandemic influenza preparedness: A survey of businesses. *American Journal of Infection Control, 35* (7), 484-485.

Mbulo, L., Newman, I. M., & Shell, D. F. (2007). Factors contributing to the failure to use condoms among students in Zambia. *Journal of Alcohol and Drug Education, 51*(2), 40-58.

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Newman I. M., Qian L, Shell D. F, Qu, M., & Zhang Y. (2006a). Yin jin qi wang de heng liang yi ji Zhong Guo qing shao nian yin jiu qi wang liang biao de kai fa [Measurement of alcohol expectancy and development of Chinese adolescent alcohol expectancy questionnaire (CAEQ)]. *Zhong Guo Wei Sheng Tong Ji [Chinese Journal of Health Statistics], 23*(5), 426-429, 432.

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Shell, D. F., Husman, J., Turner, J. E., Cliffel, D. M., Nath, I., & Sweany, N. (2005). The impact of computer supported collaborative learning communities on high school students' knowledge building, strategic learning, and perceptions of the classroom. *Journal of Educational Computing Research, 33*(3), 327-349.

Newman, I. M., Shell, D. F., Innadda, S., & Li, T. (2005). Alcohol expectancies among a sample of Thai high school students. *Thai Journal of Public Health, 35*(2), 87-97.

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Newman, I. M., & Shell, D. F. (2005). Smokeless tobacco expectancies among a sample of rural adolescents. *American Journal of Health Behavior, 29,* 127-136.

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Shell, D. F., Colvin, C., & Bruning, R. H. (1995). Self-efficacy, attribution, and outcome expectancy mechanisms in reading and writing achievement: Grade level and achievement level differences. *Journal of Educational Psychology*, *87*, 386-398. DOI: 10.1037/0022-0663.87.3.386

Shell, D. F., & Horn, C. A. (1991). Compensatory computer technology for disabled college students: Applications and an evaluation of student use, satisfaction, and academic outcomes. *Journal of Postsecondary Education and Disability*, *9*, 282-290.

Horn, C. A., & Shell, D. F. (1990). Availability of computer services in post-secondary institutions: Results of a survey of AHSSPPE members. *Journal of Postsecondary Education and Disability*, *8,* 115-124.

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Stinnett, N., Smith, R., Tucker, D. M., & Shell, D. F. (1985). Executive families: Strengths, stress, and loneliness. *Wellness Perspectives*, *2*, 21-29.

BOOKS

Shell, D. F., Brooks, D. W., Trainin, G., Wilson, K., Kauffman, D. F., & Herr, L. (2010). T*he Unified Learning Model: How motivational, cognitive, and neurobiological sciences inform best teaching practices*. Netherlands: Springer (ISBN-10: 9048132142; ISBN-13: 9789048132140).

Van Zandt, S., Lingren, H., Rowe, G., Zeece, P., Kimmons, L., Lee, P., Shell, D., & Stinnett, N. (Eds.). (1986). *Family strengths 7: Vital connections*. Lincoln, NE: Center for Family Strengths, University of Nebraska-Lincoln.

CHAPTERS AND INVITED PUBLICATIONS

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Shell, D. F., & Flowerday, T. (2019). Affordances and attention: Learning and culture. In K. A. Renninger & S. E. Hidi (Eds.), *The Cambridge Handbook on Motivation and Learning* (pp. 759-782). Cambridge, UK: Cambridge University Press. DOI: https://doi.org/10.1017/9781316823279.032

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Soh, L.-K., Ingraham, E., Shell, D., Peteranetz, M., & Miller, L.D. *Implementing UNL's Computational Creativity Exercises*: *The Computational Creativity Project*. Engage-CSEdu Teaching Paper. https://www.engage-csedu.org/find-resources/implementing-unls-computational-creativity-exercises

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MANUSCRIPTS IN PREPARATION

Flanigan, A. E., Peteranetz, M. S., Shell, D. F., & Soh, L.-K. (in preparation). *Relations between implicit intelligence beliefs and maladaptive self-regulation of learning*. Manuscript in preparation for resubmission.

Flowerday, T., Shell, D. F., & Moreno, R., (in preparation). *Using profiles of motivated strategic self-regulation to understand mathematics achievement of ethnically diverse elementary and middle school students*. Manuscript in preparation for resubmission.

INVITED PRESENTATIONS AND WORKSHOPS

National and International

2018 Invited panelist to the ADTSEA 2018 Conference Panel Discussion: *Evaluating the Effectiveness of Driver Education Programs and Implementing Effective Strategies*, Chicago, IL, 7/22/18 with Dan Mayhew, Troy E. Costales, and William E. Van Tassel.

2018 Juried Invited poster "*IUSE Computational Creativity: Improving Learning, Achievement, and Retention in Computer Science for CS and non-CS Undergraduates*" at the NSF Grantees' Poster Session at the 2018 ASEE Annual Conference, Salt Lake City, UT, 6/24/18 with Leen-Kiat Soh, Elizabeth Ingraham, Markeya Peteranetz, and Abraham Flanigan.

2018 Juried Invited Workshop "*Computational Creativity Exercises for Improving Student Learning and Performance*" at the 49th ACM Technical Symposium on Computer Science Education (SIGCSE'2018), Baltimore, MD, 2/21/18 with Leen-Kiat Soh, and Elizabeth Ingraham.

2016 Invited speaker to the UP CS ED (Understanding and Propagating the Essence of Successful CS Education Research Projects) Workshop at the 12th International Computing Education Research Conference (Melbourne, AU: "*IUSE: Design, Development, and Implementation Projects: Computational Creativity to Improve CS Education for CS and Non-CS Undergraduates*", Melbourne, AU, 9/8/16 with Leen-Kiat Soh, Elizabeth Ingraham, Brian Moore & Steve Ramsay.

2016 Invited panelist to the Plenary Panel at the 15th IEEE International Conference on Cognitive Informatics & Cognitive Computing (ICCI*CC 2016), "*Perspectives on Cognitive Computing, Big Data Cognition, and Machine Learning*", Stanford University, Palo Alto, CA, 8/23/16, with B. Widrow, G. Baciu, V. C. Bhavsar, G. Budin, C. Chan, L. Chen, R. A. Fiorini, M, Gavrilova, N, Howard, D. F. Hsu, W. Kinsner, G. Luo, F. Mizoguchi, D. Patel, S. Patel, V. Raskin, H. Wang, S. Wood, F. Zanzotto, D. Zhang, and K. Zhang.

2016 Invited speaker to the 2016 Lifesavers National Conference on Highway Safety "*Impact of Driver Education on Teen Crashes and Citations*" as part of the Workshop "*How We Train & Assess Young Novice Drivers*", Long Beach, CA, 4/4/16.

2016 Invited presenter to the NSF Project Showcase at the 47th ACM Technical Symposium on Computer Science Education (SIGCSE'2016), "*Computational Creativity to Improve CS Education*", Memphis, TN, 3/4/16, with Leen-Kiat Soh.

2016 Invited exhibit as part of the Broadening Participation in Computing – National Center for Women & Information Technology (NCWIT) exhibition booth at the 47th ACM Technical Symposium on Computer Science Education (SIGCSE'2016), "*Computational Creativity to Improve Computer Science Education for CS and non-CS Undergraduates*", Memphis, TN, 3/3-5/16, with Leen-Kiat Soh.

2014 Invited panelist to the Plenary Panel at the 13th IEEE International Conference on Cognitive Informatics & Cognitive Computing (ICCI*CC 2014), "*Perspectives on Cognitive Computing and Cognitive Systems*", London, UK, 8/20/14, with V. Bhavsar, G. Fariello, S. Fujita, W. Kinsner, F. Mizoguchi, C. Moulin, F. Murtagh, D. Patel, S. Patel, V. Raskin, E. Rolls, S. Tsumoto, & Y. Vural, D. Zhang.

2014   Invited presentation to the Tapestry Workshop, "*Research-Supported Pedagogy*", University of Virginia, Charlottesville VA. 6/24/14.

2013   Invited panelist to the Plenary Panel at the 12th IEEE International Conference on Cognitive Informatics & Cognitive Computing (ICCI*CC 2013), "*Perspectives on Cognitive Computers and Knowledge Processors*", New York, NY, 7/18/13, with G. Baciu, M. Gavrilova, D. F. Hsu, W. Kinsner, F. Mizoguchi, D. Patel, S. Patel, F. L. Pelayo, A. R. Rao, V. Raskin, K. Sugawara, S. Tsumoto, & D. Zhang.

2013   Invited Keynote Address to the Implications of Tiger Parenting for Legal Education Conference, "*Tiger Parenting and Legal Education from the Perspective of the Unified Learning Model: Understanding What Works and Why*", University of Colorado Law School, Boulder, CO, 6/27/13.

2013   Invited poster to the National Science Foundation, Transforming Undergraduate Education in STEM (TUES) Principal Investigators Workshop, "*Integrating Computational and Creative Thinking*", Washington, DC, 1/24/13, with Leen-Kiat Soh, Elizabeth Ingraham, Stephen Ramsay, LD Miller, Vlad Chiriacescu, Melissa Patterson Hazley, & Brian Moore.

2011   Measurement Facilitator at the Southwest Consortium for Innovative Psychology in Education 4th Biennial Conference, "B*uilding capacity for stem research through innovations in psychology and education: Foci Area 1 goals, w*orking sessions on definitional and measurement clarity, Norman, OK, 11/10-11/11, with Jessica Summers & Ray Miller.

2011   Invited panelist to the Governor's Highway Safety Association Annual Meeting, "*Differential Impact of Driver Education and Driving Log Methods for Obtaining Provisional Driving Licenses on Crashes and Citations in the First Two Years of Driving*" as part of the Panel Session "*Reforming Drive Education*", Cincinnati, OH, 9/26/11, with Ian Newman & Ana Lucia Cordova-Cazar.

2011   Invited presentation at the American Educational Research Association Annual Meeting, "*Roxana Moreno's Contribution to Research on Mathematics Learning: Cognitive and Conative Factors in the Context of Ethnicity*" as part of the Memorial Symposium "*Roxana Moreno's Unique Contributions to the Science of Learning and Instruction*", New Orleans, 4/10/11.

2010   Invited lecture to Chinese Center for Health Education, National Institute for Health Education, Beijing, China. "*Self-Efficacy and Expectancy Influences on Drinking*", 8/6/10.

2009   Invited talk to the American Educational Research Association Division C Graduate Student Seminar, San Diego, CA. "*Grants and Funding Opportunities*" 4/13/09.

2008   Invited talk to the American Educational Research Association Division C Graduate Student Seminar, New York, NY. "*Grants and Funding Opportunities*" 3/24/08.

2007   Invited talk to the American Educational Research Association Division C Graduate Student Seminar, Chicago, IL. "*Alternative Career Paths*" 4/9/07.

2007   Visiting Faculty, National Institute of Health Education, China Center for Disease Control and Prevention, Beijing, China. Presented invited workshop on "*Evaluation Strategies for Public Health Education and Health Promotion Programs*", with Ian Newman & Qu Ming, 3/13/07-3/15/07.

Regional and State

2015   Invited poster to the University of New Mexico, College of Education, Department of Individual, Family, and Community Education, 2015 Research Showcase. "*American Indian elementary and middle school students: Beliefs about, and motivation for school and mathematics.*" 11/12/15, with Terri Flowerday (1st author), Veronica Lane Lee, & Roxana Moreno.

2015   Invited presentation to the Nebraska Office of Highway Safety Advocates Meeting. "*Driver Education Impact on Teen Crashes and Citations and Profiles of Teen Driving Risk.*" 5/7/15, with Ian Newman, Ana Lucia Cordova-Cazar, Mengyang Wang, & Jill M. Heese.

2012   Invited presentation to the Nebraska Office of Highway Safety Advocates Meeting. "*Differential Impact of Driver Education and Driving Log Methods for Obtaining Provisional Driving Licenses on Crashes and Citations in the First Two Years of Driving.*" 2/1/12, with Ian Newman & Ana Lucia Cordova-Cazar.

2009   Invited presentation to the Nebraska Substance Abuse Epidemiology Workgroup. "*Engaging University Communities in Environmental Change Programs to Reduce High-Risk Drinking.*" 6/24/09, with Linda Major.

2007   Invited workshop for the member of the Nebraska Collegiate Consortium to Reduce High-Risk Drinking, University of Nebraska-Lincoln, Lincoln, NE. "*Evaluation.*" 9/12/07.

2006   Invited workshops for the members of the Midwest Consortium for Service-Learning, University of Nebraska-Lincoln, Lincoln, NE. "*Developing Logic Models and Evaluating Project Outcomes.*" 1/23/06 and 1/31/06.

2003   Invited address to the faculty and students in educational psychology at the University of New Mexico, Albuquerque, NM. "*Research for Fun and Profit: Tales of a Vagabond Researcher.*" 10/03.

1993   Invited address to the Society for Technical Communication, Austin, TX. "*Reading to learn, learning to read: Cognitive research and the technical communicator.*" 1/93.

1993   Invited panel participant to the Southwest Educational Research Association Annual Meeting, Austin TX. (1993, January). "*Educational psychology: What difference is it making*?" with Weinstein, C. E., Svinicki, M. Alexander, P. A., Knight, S. L., 1/93.

1992   Invited panel participant to the Southwest Educational Research Association Annual Meeting, Houston, TX. "*Teaching and learning in the 21st century: A conversation among colleagues*" with VanMater-Stone, G., Weinstein, C. E., Alexander, P. A., Knight, S., & Kulikovich, J. M., 1/92.

University

2016   Invited breakout session at the University of Nebraska-Lincoln Fall Teaching and Learning Symposium. "*Student Motivation and Strategic Engagement: What do They Mean for Student Learning and Classroom Instruction?*" With Leen-Kiat Soh, 10/7/16.

2015   Invited address to the Discipline-Based Education Research group STEM Education Seminar series, University of Nebraska-Lincoln. "*Understanding Student Motivation and Strategic Engagement in Computer Science and STEM Courses.*" With Leen-Kiat Soh, 10/29/15.

2015   Invited address to the Discipline-Based Education Research group STEM Education Seminar series, University of Nebraska-Lincoln. "*Integrating Computational Creativity Exercises into Classes.*" With Leen-Kiat Soh, 9/3/15.

2015   Workshop for computer science department faculty, University of Nebraska-Lincoln. "*Integrating Computational Creativity into Classes.*" With Leen-Kiat Soh & Elizabeth Ingraham, 7/23/15.

2013   Invited address to the visiting Xi'an Jiaotong University science faculty, American Exchange Center, University of Nebraska-Lincoln, *"The Unified Learning Model: Understanding What Works in Education and Instruction and Why."* 10/22/13.

2012   Invited address to the Discipline-Based Education Research group lecture series, University of Nebraska-Lincoln. "*The Unified Learning Model (ULM): How Motivational, cognitive and neurobiological sciences inform best teaching practice.*" With Douglas Kauffman, 3/27/12. https://digitalcommons.unl.edu/dberspeakers/15

2011 Invited address to the Cognition, Learning, & Development Graduate Student-Faculty Colloquium Series, Department of Educational Psychology, University of Nebraska-Lincoln. *"The Unified Learning Model (ULM): Theory and computational simulation of human learning and motivational processes*." 12/2/11.

2010 Invited address to the Cognition, Learning, & Development Graduate Student-Faculty Colloquium Series, Department of Educational Psychology, University of Nebraska-Lincoln. *"Exploring motivation and self-regulation as hierarchical multivariate, multidimensional constructs*." 4/20/10.

2008 Invited panel participant to the Substance Abuse Research Cluster Brown Bag Series, University of Nebraska-Lincoln, Lincoln, NE. *"The drinking age debate: From research to practice and policy*." with Ian Newman, Linda Major, & Alan Tomkins, 9/15/08.

2007 Invited address to faculty and graduate students of the Substance Abuse Research Cluster, University of Nebraska-Lincoln, Lincoln, NE. *"Smokeless tobacco (ST) education for Nebraska adolescents: from theory to practice and back to theory and…*.", with Ian Newman & Christina Perry, 9/07.

2007 Invited address as part of the Survey, Statistics, and Psychometrics Core Facility Brown Bag Series, University of Nebraska-Lincoln. *"An Introduction to Evaluation Research*." 1/26/07.

CONFERENCE AND PROFESSIONAL PRESENTATIONS

Shell, D. F. & Flowerday, T. (2019, April). *Affordances and Attention: Learning, Motivation, and Culture*. In the Workshop "Synergies in Studies of Motivation and Learning: An Interactive Workshop" (K. A. Renninger, Chair, & S. E. Hidi, Moderator). Presentation at the 2019 American Educational Research Association Annual Meeting, Toronto, Ontario, Canada.

Flanigan, A. E., Peteranetz, M. S., & Shell, D. F., & Soh, l.-K. (2018, October). *Examining undergraduate computer science students' shift towards a fixed mindset*. Paper presented at the Mid-Western Educational Research Association Annual Conference, Cincinnati, Ohio.

Peteranetz, M. S., Shell, D. F., Soh, L.-K., Ingraham, E., & Flanigan, A. E. (2018, June). *IUSE Computational Creativity: Improving learning, achievement, and retention in computer science for CS and non-CS undergraduates*. Paper presented at the 2018 ASEE Annual Conference and Exposition, Salt Lake City, UT.

Flowerday, T., & Shell, D. F. (2018, April). *Affordances, attention, learning, and culture*. In the Workshop "Motivation and Learning: What Is Provocative and/or Novel?" (K. A. Renninger, Chair, & S. E. Hidi, Moderator). Roundtable discussion at the 2018 American Educational Research Association Annual Meeting, New York, NY.

Flanigan, A. E., Peteranetz, M. S., & Shell, D. F. (2018, April). *Relations between ineffective academic self-regulation and college students' implicit intelligence beliefs*. Poster presented at the 2018 American Educational Research Association Annual Meeting, New York, NY.

Peteranetz, M. S., Wang, S., Shell, D. F., Flanigan, A. E., & Soh, L.-K. (2018, February). *Examining the impact of computational creativity exercises on college computer science students' learning, achievement, self-efficacy, and creativity*. Paper presented at the 49th ACM Technical Symposium on Computer Science Education (SIGCSE'2018), Baltimore, MD.

Peteranetz, M. S., Flanigan, A. E., Shell, D. F., & Soh, L.-K. (2018, February). *Future-oriented motivation and retention in computer science*. Paper presented at the 49th ACM Technical Symposium on Computer Science Education (SIGCSE'2018), Baltimore, MD.

Shell, D. F., Flowerday, T., Peteranetz, M. S., & Flanigan, A. E. (2017, October). *Trials and tribulations of longitudinal research in the classroom and school setting: Issues in execution and analysis*. Experiential Learning Session presented at the Southwest Consortium for Innovative Psychology in Education 7th Biennial Conference, Las Vegas, NV.

Wang, S., Shell, D. F., Flanigan, A. E., & Peteranetz, M. S., & Soh, L.-K. (2017, April). *Impact of creative competency exercises on college computer science students' learning, achievement, self-efficacy, and creativity*. Paper presented at the 2017 American Educational Research Association Annual Meeting, San Antonio, TX.

Flanigan, A. E., Peteranetz, M. S., & Shell, D. F. (2017, April). *Change across time: Exploring how computer science students' implicit intelligence beliefs change across the semester*. Poster presented at the 2017 American Educational Research Association Annual Meeting, San Antonio, TX.

Shell, D. F., Soh, L.-K., Flanigan, A. E., & Peteranetz, M. S., Ingraham, E. (2017, March*). Improving students' learning and achievement in CS classrooms through computational creativity exercises that integrate computational and creative thinking*. Paper presented at the 48th ACM Technical Symposium on Computer Science Education (SIGCSE'2017), Seattle, WA. [Selected as Exemplary CS Education Research Paper]

Peteranetz, M. S., Flanigan, A. E., Shell, D. F., & Soh, L.-K. (2016, September). *Perceived instrumentality and career aspirations in CS1 courses: Change and relationships with achievement*. Paper presented at the 12th ACM International Computing Education Research Conference (ICER), Melbourne, AU.

Shell, D. F., Soh, L.-K., & Chiriacescu, V. (2016, August). *Modeling chunking effects on learning and performance using the Computational-Unified Learning Model (C-ULM): A multiagent cognitive process model*. Paper presented at the 15th IEEE International Conference on Cognitive Informatics & Cognitive Computing (ICCI*CC 2016), Stanford University, Palo Alto, CA.

Pu, J., Ding, L. Y., Newman, I. M., Shell, D. F., Qian, L. (2016, August). 高中生,饮酒行为、抑郁状态与自杀意念之间的关系 [Drinking, depression, and suicide intentions among Chinese adolescents]. China National Health Education Conference,Xi'an, China. [Selected as one of the 20 outstanding papers]

Soh, L.-K., Ingraham, E., & Shell, D. F. (2016, April). *Computational creativity and computer science education*. Paper presented at the Symposium on Envisioning the Future of Undergraduate STEM Education: Research and Practice. Washington, DC: National Science Foundation.

Shell, D. F., Flanigan, A. E., Peteranetz, M. S., & Soh, L.-K. (2016, April). *Students' initial course motivation and their achievement and retention in undergraduate computer science courses*. Paper presented at the 2016 American Educational Research Association Annual Meeting, Washington, DC.

Peteranetz, M. S., Flanigan, A. E., Shell, D. F., & Soh, L.-K. (2016, April). *The relationship between changes in implicit intelligence theories and achievement in computer science*. Paper presented at the 2016 American Educational Research Association Annual Meeting, Washington, DC.

Shell, D. F., Soh, L.-K., Flanigan, A. E., & Peteranetz, M. S. (2016, March). *Students' initial course motivation and their achievement and retention in college CS1 courses*. Paper presented at the 47th ACM Technical Symposium on Computer Science Education (SIGCSE'2016), Memphis, TN.

Eck, A., Soh, L.-K., & Shell, D. F. (2016, March). *Investigating differences in wiki-based collaborative activities between student engagement profiles in CS1*. Paper presented at the 47th ACM Technical Symposium on Computer Science Education (SIGCSE'2016), Memphis, TN.

Shell, D. F., Husman, J., Benson, L., Hilpert, J., Jordan, M., Kraft, K., Kirn, A., & Muto-Nelson, K. (2015, November). *Discipline based educational research in the middle: Education research in disciplinary contexts by content experts, psychologists and education researchers*. Working session (role Session Facilitator) at the Southwest Consortium for Innovative Psychology in Education 6th Biennial Conference, Albuquerque, NM.

Flanigan, A. E., Peteranetz, M. S., Shell. D. F., & Soh, L.-K. (2015, August). *Exploring changes in computer science students' implicit theories of intelligence across the semester*. Paper presented at the 11th ACM International Computing Education Research Conference (ICER), Omaha, NE.

Cordova-Cazar, A, L., Shell, D. F., & Newman, I. M. (2015, March). *Latent types of teen drivers and the influence of driver's education*. Poster presented at the 2015 Lifesavers National Conference on Highway Safety Priorities, Chicago, IL.

Ding, L., Buss, E., Shell, D. F., Shuangshuang, C., & Newman, I. M. (2014, October). *Drinking in context: The influence of peer pressure on alcohol drinking among Chinese college students (preliminary findings)*. Poster presented at the Midwest Social Development Consortium (MWSDC), University of Kansas, Lawrence, KS.

Shell, D. F., Hazley, M. P., Soh, L.-K., Miller, L. D., Chiriacescu, V., & Ingraham, E. (2014, October). *Improving learning of computational thinking using computational creativity exercises in a college CS1 computer science course for engineers*. Paper presented at the 44th Annual Frontiers in Education (FIE) Conference, Madrid, Spain.

Hazley, M. P., Shell, D. F., Soh, L.-K., Miller, L. D., Chiriacescu, V., & Ingraham, E. (2014, October). *Changes in student goal orientation across the semester in undergraduate computer science courses*. Paper presented at the 44th Annual Frontiers in Education (FIE) Conference, Madrid, Spain.

Shell, D. F., Soh, L.-K., & Chiriacescu, V. (2014, August). *Modeling self-efficacy with the computational-unified learning model*. Paper presented at the 13th IEEE International Conference on Cognitive Informatics & Cognitive Computing (ICCI*CC 2014), London, England.

Yu, Y. Q., Shell, D. F., & Kauffman, D. K. (2014, August). *Cognition and motivation related to college students' writing revision: A phenomenology study*. Poster presented at the 122nd Annual Convention of the American Psychological Association, Washington, DC.

Cheng, K., Husman, J., & Shell, D. F. (2014, June). *The associations between post-secondary engineering students' future-oriented motivation and their creativity in academic settings*. Poster presented at the International Conference on Motivation 2014, Helsinki, Finland.

Hopkins, M., Newman, I. M., Major, L., & Shell, D. F. (2014, April). *18 and out of the house: Using college environments to reduce alcohol-related traffic harm*. Poster presented at the 2014 Lifesavers National Conference on Highway Safety Priorities, Nashville, TN.

Shell, D. F., Newman, I. M., Cordova-Cazar, A. L., Wang, M., & Heese, J. M. (2014, April). *Driver education and reduced teen crashes and traffic violations*. Poster presented at the 2014 Lifesavers National Conference on Highway Safety Priorities, Nashville, TN.

Shell, D. F., Hazley, M. P., Soh, L .K., Ingraham, E., & Ramsay, S. (2014, April). *Impact of creative competency exercises in college computer science courses on students' creativity and learning*. Paper presented at the 2014 American Educational Research Association Annual Meeting, Philadelphia, PA.

Yu, Y. Q., & Shell, D. F. (2014, April). *Validation of the Student Perceptions of Classroom Knowledge Building (SPOCK): An instrument measuring student strategic self-regulation and classroom perceptions*. Paper presented at the 2014 American Educational Research Association Annual Meeting, Philadelphia, PA.

Miller, L. D. , Soh, L .K., Chiriacescu, V., Ingraham, E., Shell, D. F., Hazley, M. P. (2014, March). *Integrating computational and creative thinking to improve learning and performance in CS1*. Paper presented at the 45th Technical Symposium on Computer Science Education (SIGCSE'2014), Atlanta, GA.

Kersting, N., Shell, D. F., Chung, W. T., Sutton, T., Stoehr, K., & Heshmati, S. (2013, November). *Understanding teacher knowledge and its development in mathematics: Cognitive models and the dynamic nature of knowledge use*. Breakout session (role Session Facilitator) at Southwest Consortium for Innovative Psychology in Education 5th Biennial Conference, Tucson, AZ.

Jordan, M., Kraft, K., Husman, J., Shell, D. F., Svihla, V., Brem, S., Hilpert, J., Chung, W. T., Stump, G., & Duggan, M. A. (2013, November). *Doing educational research in STEM domains: Does the domain matter? Does psychological methodology matter?* Breakout session (role Featured Participant) at Southwest Consortium for Innovative Psychology in Education 5th Biennial Conference, Tucson, AZ.

Miller, L. D., Soh, L.K., Chiriacescu, V. Ingraham, E., Shell, D. F., Ramsay, S., & Hazley, M. P. (2013, October). *Improving learning of computational thinking using creative thinking exercises in CS-1 computer science courses*. Paper presented at the 43rd Annual Frontiers in Education (FIE) Conference, Oklahoma City, OK.

Shell, D. F., Hazley, M. P., Soh, L.K., Ingraham, E., & Ramsay, S. (2013, October). *Associations of students' creativity, motivation, and self-regulation with learning and achievement in college computer science courses*. Paper presented at the 43rd Annual Frontiers in Education (FIE) Conference, Oklahoma City, OK.

Chiriacescu, V., Soh, L.K., & Shell D. F. (2013, July). *Understanding human learning using a multi-agent simulation of the Unified Learning Model*. Paper presented at the 12th IEEE International Conference on Cognitive Informatics & Cognitive Computing (ICCI*CC 2013), New York, NY.

Pickett, G. V., Husman, J., Ross, K., Shell, D., Nelson, K., & Bowden, S. (2013, June), *Student-Led Solar Cell Fabrication Pilot line: Engaging the Next Generation of PV Engineers*. Poster presented at the 39th IEEE Photovoltaic Specialist Conference, Tampa, FL.

Muto-Nelson, K., Fishman, E., Husman, J., & Shell, D. F. (2013, April). *Motivational profiles of engineering students taking a non-major, required course*. Poster presented at the 2013 American Educational Research Association Annual Meeting, San Francisco, CA.

Shell, D. F., Chiriacescu, V., & Soh, L. K. (2012, August). *Why is working memory capacity 4-6?* Poster presented at the 120th Annual Convention of the American Psychological Association, Orlando, FL.

Yu, Y. Q., Shell, D. F., Newman, I. M., & Kauffman, D. K. (2012, August). *Validation of Chinese women's alcohol expectancy instrument*. Poster presented at the Annual Meeting of the American Psychological Association, Orlando, FL.

Flowerday, T., & Shell, D. F. (2012, April). *Disentangling the effects of interest and choice on learning, engagement, and attitude.* Poster presented at the American Educational Research Association Annual Meeting, Vancouver, BC, Canada.

Shell, D. F. (2011, April). *A profiles framework for understanding motivation and self-regulation: Introduction*. Paper presented as part of a Symposium titled, "*Moving past blind men and the elephant: A profiles framework for understanding motivation and self-regulation*" at the American Educational Research Association Annual Meeting, New Orleans, LA.

Shell, D. F. (2011, April). *A profiles framework for understanding motivation and self-regulation: Summation*. Paper presented as part of a Symposium titled, "*Moving past blind men and the elephant: A profiles framework for understanding motivation and self-regulation*" at the American Educational Research Association Annual Meeting, New Orleans, LA.

Husman, J. E., & Shell, D. F. (2011, April). E*xamining profiles of motivated self-regulation in college courses using multiple methodologies: Do all profiles always have to be present*. Paper presented as part of a Symposium titled, "*Moving past blind men and the elephant: A profiles framework for understanding motivation and self-regulation*" at the American Educational Research Association Annual Meeting, New Orleans, LA.

Shell, D. F., Moreno, R., Flowerday, T., Ainley, M., Atencio, D., Green, J., Ruth, T., Sanchez, J., & Taasoobshirazi, G. (2009, November). *Influence of culture on children's mathematics learning*. Breakout session (role Session Facilitator) at Southwest Consortium for Innovative Psychology in Education 3rd Biennial Conference, Las Vegas, NV.

Duan, Y., Newman, I. M., & Shell, D. F. (2009, November). *The effects of a comprehensive community-based program for MSM in one city in China*. Paper presented at the 137th Annual Meeting of the American Public Health Association, Philadelphia, PA.

Newman, I.M., Shell, D.F., Qian L., Meng, X.P., Zhang, J.B., Li, Y.H., Ma Y, Tao, M.X. (2009, November). *Survivors' self-expressed mental health needs following China's 2008 Szechuan earthquake*. Paper presented at the 137th Annual Meeting of the American Public Health Association, Philadelphia, PA.

Zhang, Y., Shell, D. F., & Newman, I. M. (2009, November). *Reducing harms from adolescents' drinking: Exploring the effects of an alcohol intervention curriculum designed for Chinese youth*. Poster presented at the 137th Annual Meeting of the American Public Health Association, Philadelphia, PA.

Perry, C. M., Newman, I. M., & Shell, D. F. (2009, March). *Changing student's smokeless tobacco outcome expectancies*. Poster presented at the 9th Annual Meeting of the American Academy of Health Behavior. Hilton Head, SC.

Soh, L.K., Samal, A., Scott, S., Moriyama, E., Meyer, G., Ramsay, S., Moore, B., Thomas, W. G., & Shell, D. F. (2009, March). *Renaissance computing: An initiative for promoting student participation in computing.* Paper presented at the 40th ACM Technical Symposium on Computer Science Education (SIGCSE 2009). Chattanooga, TN.

Lynch, C.S., Hilpert, J. C., Husman, J., & Shell, D. F. (2008, August). *Exploring outcome goals in a post-secondary human sexuality course*. Poster presented at the 116th Annual Convention of the American Psychological Association. Boston, MA.

Major, L., Newman, I.M., & Shell, D.F. (2008, January). *Engaging university communities in environmental change programs to reduce high-risk drinking*. Paper presented at the Alcohol Policy 14: Engaging States and Communities in Prevention Policies Conference, San Diego, CA.

Patrick, H., Nolan, S., Nichols, S., Christiansen, J., Greene, B., Flowerday, T., Husman, J., Karabenick, S., Linenbrink-Garcia, L., Murdock, T., Pekrun, R., Shell, D. F., & Zambo, D. (2007, November). *The development of interest in science*. Breakout session (role Featured Participant) at Southwest Consortium for Innovative Psychology in Education 2nd Biennial Conference "What makes teaching and learning science so difficult"? Phoenix, AZ.

Hofer, B., Greene, J., Stahl, E., Bendixen, L., De Backer, T., Sinatra, G., Crowson, M., Schommer-Aikins, M., Haerle, F., Muis, K, & Shell, D. F. (2007, November). *Measuring epistemic beliefs within the context of science*. Breakout session (role Featured Participant) at Southwest Consortium for Innovative Psychology in Education 2nd Biennial Conference "What makes teaching and learning science so difficult"? Phoenix, AZ.

Shell, D. F., & Husman, J. (2007, April). *Multilevel influences of students' dispositions and perceived classroom goal structure on their motivated strategic self-regulation*. Poster presented at the American Educational Research Association Annual Meeting, Chicago, IL.

Moreno, R., Shell, D. F., & Pirritano, M. (2007, April). *Factors predictive of mathematics performance: Diversity between and within White, Hispanic, and Native American children*. Paper presented at the American Educational Research Association Annual Meeting, Chicago, IL.

Lynch, C.S., Husman, J., Shell, D.F., & Atwill, K. (2007, April). *Exploring outcome goals in achievement motivation.* Poster presented at the American Educational Research Association Annual Meeting, Chicago, IL.

Shell, D. F., Newman, I. M., Schroeder, R. C., Major, L. J., & Workman, T. A. (2006, November). *Policy, education, enforcement and coordinated community action to reduce binge drinking among college students*. Poster presented at the 134th Annual Meeting of the American Public Health Association, Boston, MA.

Duggan, M.A., Lynch, C.S., Husman, J., & Shell, D.F. (2006, August). *A validation study of the Student Perceptions of Classroom Knowledge-building Scale*. Poster presented at the 114th Annual Convention of the American Psychological Association. New Orleans, LA.

Shell, D. F., Newman, I. M., Fang, X., & Foley, B. (2005, December). *Effects of alcohol expectancies, self-efficacy, and cultural orientation on drinking patterns.* Poster presented at the 133rd Annual Meeting of the American Public Health Association, Philadelphia, PA.

DeCorte, E., Wolters, C., Pekrun, R., Linnenbrink, E., Muis, K., O'Donnell, A., Parks, J., Shell, D., & Flowerday, T. (2005, November). *Measuring motivational and affective constructs.* Breakout session (role Featured Participant) at Southwest Consortium for Innovative Psychology in Education 2005 Inaugural Conference on Student Beliefs, Motivation, Cognition, & Epistemology. Las Vegas, NV.

Urdan, T., Middleton, M., Linnenbrink, E., Husman, J., Brem, S., Pekrun, R., Shell, D., Wolters, C., & De Backer, T. (2005, November). *Making sense of goal theory.* Breakout session (role Featured Participant) at Southwest Consortium for Innovative Psychology in Education 2005 Inaugural Conference on Student Beliefs, Motivation, Cognition, & Epistemology. Las Vegas, NV.

Newman, I. M., Shell, D. F., & Foley, B. (2005, May). *Rural youth and smokeless tobacco expectancies.* Paper presented at the 2005 National Conference on Tobacco or Health. Chicago, IL.

Newman, I. M., Xue, J., Shell, D. F., & Fang, X. (2003, November). *Western cultural influence on adolescent drinking in China.* Poster presented at the 131th Annual Meeting of the American Public Health Association, San Francisco, CA.

Newman, I. M., Shell, D. F., & Stagg, B. (2002, November). *Spit tobacco expectancies among rural high school students.* Poster presented at the 130th Annual Meeting of the American Public Health Association, Philadelphia, PA.

Shell, D. F., Newman, I. M., & Qu, M. (2002, June). *Alcohol expectancies among high school students in China.* Poster presented at the 25th Annual Scientific Meeting of the Research Society on Alcoholism, San Francisco, CA.

Newman, I. M., Shell, D. F., Innadda, S., & Li, T. (2001, July). *Alcohol expectancies among a sample of Thai high school students.* Paper presented at the XVII World Conference on Health Promotion and Health Education, Paris, France.

Qu, M., Newman, I. M., Shell, D. F., Li, Y. & Gao, F. (2000, November). *Relationship of grade, sex, and alcohol use to alcohol expectancies among Chinese adolescents.* Paper presented at the Annual Meeting of the American Public Health Association, Boston, MA.

Newman, I. M., Shell, D. F., Li, T., & Innadda, S. (2000, November). *Buddhism and adolescent alcohol use in Thailand.* Poster presented at the Annual Meeting of the American Public Health Association, Boston, MA.

Newman, I. M., Qu, M., Shell, D., Li, Y., & Gao, F. (2000, September). *Alcohol expectancies among adolescents in inner Mongolia.* Paper presented at the meeting of the World Federation of Public Health Association, Beijing, People's Republic of China.

Newman, I. M., Qu, M., Shell, D., Li, Y. & Gao, F. (1999, November). *Alcohol behavior and expectations among inner Mongolia adolescents.* Paper presented at the Annual Meeting of the American Public Health Association, Chicago, IL.

Newman, I. M., Qu, M.., Shell, D., Gao, F., & Li, Y. (1999, November). *Chinese adolescent alcohol use and alcohol expectancies in inner Mongolia.* Poster presented at the Annual Meeting of the American Public Health Association, Chicago, IL.

Hamman, D., Shell, D. F., Droesch, D. M., Husman, J., & Handwerk, M. (1997, March). *Examining the real-time effects of reading strategy training.* Poster presented at the American Educational Research Association Annual Meeting, Chicago, IL.

Husman, J. E., & Shell, D. F. (1997, March). *The dimensionality of the relations between motivation, affect, and strategic self-regulation in the college classroom.* Paper presented at the American Educational Research Association Annual Meeting, Chicago, IL.

Buttles, H. S., & Shell, D. F. (1997, March). *Group impact on individual problem solving within the undergraduate genetics course.* Paper presented at the Annual Meeting of the National Association for Research in Science Teaching, Oak Brook, IL.

Husman, J., & Shell, D. F. (1996, August). *Beliefs and perceptions about the future: A conceptualization and measurement of future time perspective.* Paper presented at the XXVI International Congress of Psychology, Montreal, QC, Canada.

Husman, J., Shell, D. F., & Just, H. (1996, August). *The inherent time perspective in goal orientation and strategy use.* Poster presented at the 1996 Annual Meeting of the American Psychological Association, Toronto, ON, Canada.

Shell, D. F., Turner, J. E., Husman, J. E., Droesch-Cliffel, D. M., Nath, I., & Wall, N. (1996, April). *Effects of collaborative, computer-supported, knowledge-building communities on high school students' knowledge building and intentional learning.* Poster presented at the American Educational Research Association Annual Meeting, New York, NY.

Hamman, D, Shell, D. F., Droesch-Cliffel, D. M., Husman, J. E., & Handwerk, M. (1996, April). *Strategy training enhances readers' real-time self-regulation processing.* Poster presented at the American Educational Research Association Annual Meeting, New York, NY.

Shell, D. F., Husman, J. E., Droesch, D. M., Hamman, D. D., Park, Y, & Handwerk M. (1995, December). *Being motivated to write: Influences of motivational beliefs on writers' during writing cognition.* Paper presented at the National Reading Conference, New Orleans, LA.

Resta, P. E., Shell, D. F., Husman, J. E., Droesch, D. M., Nath, I. Wall, N., & Turner, J. (1995, October). *Project CIRCLE: Innovative strategies for training and supporting teachers in the use of computer-based tools for collaborative learning.* Paper presented at the Computer Support for Collaborative Learning 95 conference, Bloomington, IN.

Husman, J. E., Droesch, D. M., Shell, D. F., Park, Y., & Hamman, D. D. (1995, April). *The routine process of writing: Three fundamental cognitive mechanisms in writing performance.* Poster presented at the American Educational Research Association Annual Meeting, San Francisco, CA.

Hamman, D. D., Shell, D. F., Droesch, D., Husman, J., Handwerk, M., Park, Y. & Oppenheim, N. (1995, April). *Middle school readers on-line cognitive processes: Influence of subject-matter knowledge and interest during learning.* Poster presented at the American Educational Research Association Annual Meeting, San Francisco, CA.

Shell, D. F., Hamman, D. D., Husman, J., Droesch, D., Mouyer, A, Maguire, M. & Handwerk, M. (1994, April). *Thinking about reading and studying: Motivational influences on strategic and metacognitive processing during reading.* Roundtable presented at the American Educational Research Association Annual Meeting, New Orleans, LA.

Shell, D. F., Husman, J., Droesch, D., Hamman, D. D., Handwerk, M., Park, Y., & Wishard, D. (1994, January). *Motivation and effective writing: The role of self-beliefs.* Paper presented at the Southwest Educational Research Association Annual Meeting, San Antonio, TX.

Hamman, D. D., Shell, D. F., Maguire, M., Handwerk, M., Husman, J., Mouyer, A., Stough, L., & Droesch, D. (1993, January). *Metacognition, motivation, and cognitive processes during reading and studying.* Paper presented at the Southwest Educational Research Association Annual Meeting, Austin, TX.

Shell, D. F., & Hamman, D. (1992, December). *Do you have to know to want to? Metacognition, motivation, and cognitive processes while reading texts with familiar and unfamiliar content*. Paper presented at the National Reading Conference, San Antonio, TX.

Shell, D. F. (1992, July). *Canonical relations between student self-referent beliefs and their grades and studying*. Paper presented at the XXV International Congress of Psychology, Brussels, Belgium.

Shell, D. F. (1992, April). *Patterns of college students' motivational self-beliefs, studying, and achievement*. Paper presented as part of a Symposium titled, *Emerging Trends in College Students' Self-Regulatory Motivation. What Do We Know? Where Do We Go*?" at the American Educational Research Association Annual Meeting, San Francisco, CA.

Shell, D. F., & Maguire, M. (1992, January). *Relations of achievement motivation beliefs to problem-solving skill*. Paper presented at the Southwest Educational Research Association Annual Meeting, Houston, TX.

Shell, D. F. (1991, December). *Learning declarative knowledge from text: Expertise, strategies, and their interaction*. Paper presented at the National Reading Conference, Palm Springs, CA.

Shell, D. F. (1991, January). *Does expertise matter? Strategic process use during declarative knowledge learning*. Paper presented at the Southwest Educational Research Association Annual Meeting, San Antonio, TX. [Winer of the "Outstanding Paper Award"]

Svoboda, C. J., Horn, C. A., Dongilli, P. A., Jr., Bruning R. H., & Shell, D. F. (1990, October). *Information technology for learning disabled students: An analysis of search patterns using a computer network and printed text volumes in an elementary media center*. Paper presented at the Mid-Western Educational Research Association 12th Annual Meeting, Chicago.

Shell, D. F., Horn, C. A., Dongilli, P. A., Jr., Svoboda, C. J., Khurana, G. S., & Beukelman, D. R. (1990, April). *Information technology for disabled students: Analysis of the implementation and operation of a CD-ROM computer network in a secondary media center*. Round Table presented at the 1990 American Educational Research Association Annual Meeting, Boston.

Shell, D. F., & Horn, C. A. (1989, November). *Project InfoNet: Description of an integrated CD-ROM data base computer network and an analysis of reading disabled student search processes and comprehension of text*. Round Table presented at the National Reading Conference, Austin, TX.

Horn, C. A., Bruning, R. H., & Shell, D. F. (1989, November). *The effects of prior knowledge and differential levels of processing in notetaking on conceptual and factual recall of lecture material*. Paper presented at the National Reading Conference, Austin, TX.

Shell, D. F., Horn, C. A., & Bruning, R. H. (1989, November). *The relationship of domain skills and general reasoning ability to reading comprehension and writing expression: An interactive conceptualization*. Paper presented at the National Reading Conference, Austin, TX.

Shell, D. F., Horn, C. A., Khurana, G. S., & Dongilli, Jr., P. A. (1989, October). *Information technologies for disabled students: Development of an adaptive CD-ROM information access data base network*. Paper presented at Closing The Gap 7th Annual International Conference, Minneapolis, MN.

Horn, C. A., & Shell, D. F. (1989, October). *Training issues: The importance of technical and academic training to support computer-based technology in the post-secondary environment*. Paper presented at Closing The Gap 7th Annual International Conference, Minneapolis, MN.

Murphy, C. C., & Shell, D. F. (1989, March). *Relationship of self-efficacy beliefs, causal attribution, and outcome expectancy to reading and writing performance for ethnically diverse college freshman*. Round Table presented at the 1989 American Educational Research Association Annual Meeting, San Francisco.

Horn, C. A., & Shell, D. F. (1989, March). *Artificial intelligence systems for disabled students: Compensatory and augmentative technologies*. Paper presented at the International Association for Computing in Education Conference, San Francisco.

Horn, C. A., Shell, D. F., & Benkofske, M. T. H. (1988, December). *Effects of cognitive developmental level on the relationships between self-efficacy, causal attribution, and outcome expectancy and performance in reading and writing*. Paper presented at the National Reading Conference, Tucson, AZ.

Shell, D. F., Horn, C. A., & Bruning, R. (1988, October). *Technologies for the information age: Enhancing disabled persons' access and use of text based information*. Paper presented at Closing The Gap 6th Annual International Conference, Minneapolis, MN.

Horn, C. A., Shell, D. F., & Benkofske, M. T. H. (1988, October). *What we have learned about technology usage for disabled students in post secondary education: Results of a three-year demonstration project*. Paper presented at Closing The Gap 6th Annual International Conference, Minneapolis, MN.

Horn, C. A., Shell, D. F., & Severs, M. K. (1988, July). *Beyond access: Classroom applications of compensatory technology for disabled students*. Paper presented at the Association on Handicapped Student Service Programs in Postsecondary Education Annual Conference, New Orleans, LA.

Shell, D. F., Horn, C. A., Benkofske, M. T., & Severs, M. K. (1988, July). *Program evaluation: Formative and summative methods*. Paper presented at the Association on Handicapped Student Service Programs in Postsecondary Education Annual Conference, New Orleans, LA.

Horn, C. A., Shell, D. F., & Severs, M. K. (1988, January). *Compensatory technology for mainstreaming*. Paper presented at the Technology and Media Division, Council of Exceptional Children, Third National Conference, Baltimore, Md.

Bruning, R., Shell, D. F., & Murphy, C. C. (1987, December). *Development of self-efficacy and outcome expectancy for reading and writing: A regression and causal modeling approach*. Paper presented at the National Reading Conference, St. Petersburg, FL.

Horn, C. A., Shell, D. F., & Severs, M. K. (1987, October). *Adaptive and compensatory computer technology for disabled college students: Applications and evaluation results*. Paper presented at Closing The Gap 5th Annual International Conference, Minneapolis, MN.

Horn, C. A., & Shell, D. F. (1987, April). *Computer applications for disabled students*. Presented at the Kansas-Association on Handicapped Student Service Programs in Postsecondary Education Spring Conference, Council Grove, KS.

Horn, C. A., Shell, D. F., & Severs, M. K. (1987, March). *The educational center for disabled students: An integrated technology and cognitive skills program for disabled college students*. Paper presented at the 1987 SETS Conference, Salina, KS.

Bruning, R., Murphy, C. C., & Shell, D. F. (1986, December). *Self-efficacy and outcome expectancy: Motivational aspects of reading and writing performance*. Round Table presented at the National Reading Conference, Austin, TX.

Shell, D. F., Horn, C. A., & Severs, M. K. (1986, October). *We do-they do: A model for practical service program evaluation*. Paper presented at the Evaluation '86 Conference, Kansas City, Mo.

Horn, C. A., Shell, D. F., & Severs, M. K. (1986, October). *The educational center for disabled students: An integrated technology and cognitive skills program for disabled college students*. Paper presented at Closing The Gap Conference 4th Annual International Conference, Minneapolis, MN.

Horn, C. A., Shell, D. F., & Severs, M. K. (1986, July). *Survival skills for disabled college students: Computer technology and cognitive skills training*. Paper presented at the Association on Handicapped Student Service Programs in Postsecondary Education Annual Conference, San Diego, CA.

Horn, C. A., Shell, D. F., & Severs, M. A. (1985, November). *Microcomputers and the disabled college student*. Paper presented at the MRADA/WCRLA Conference, Lincoln, NE.

Shell, D. F. (1984, May). *1984 and the family: Utopian family life and the impact of utopian ideas on the real world family*. Paper presented at the Seventh National Symposium on Building Family Strengths, Lincoln, NE.

McGinnis, J. A., Caldwell, C. P., Shell, D. F., & Coughlin, D. D. (1982, March). *Residential programming for the older adolescent: Issues relating to generalization and curriculum content*. Paper presented at the 8th Annual Western Regional Conference Teaching and Treating Children, Adolescents, and Parents, Las Vegas, NV.

FUNDED GRANTS

Co-Principal Investigator, "IUSE: Computational Creativity to Improve Computer Science Education for CS and non-CS Undergraduates." National Science Foundation, 2014-2021; $873,250 IUSE Grant (DUE-1431874); with Leen-Kiat Soh, PI and others; (35% credit).

Co-Principal Investigator/Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2016-2017; $230,820 Contract; with Ian Newman, PI and Megan Hopkins (33% credit).

Co-Principal Investigator/Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2015-2016; $218,023 Contract; with Ian Newman, PI and Megan Hopkins (33% credit).

Principal Investigator, "Quantum Energy & Sustainable Solar Technology (QESST)." National Science Foundation & U.S. Department of Energy, Engineering Research Center, 2011-2016; $71,001 Subcontract; with Arizona State University lead institution, Christiana Honsberg, ERC Director. (100% credit).

Co-Principal Investigator/Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2014-2015; $222,023 Contract; with Ian Newman, PI and Megan Hopkins (33% credit).

Co-Principal Investigator/Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2013-2014; $222,559 Contract; with Ian Newman, PI and Megan Hopkins (33% credit).

Co-Investigator, "Center for Computational Creativity (C^3)." University of Nebraska-Lincoln, Office of Research and Economic Development, 2012-2014; $75,000 Pathways to Interdisciplinary Research Centers-Phase 2 Grant; with Leen-Kiat Soh PI & others (20% credit).

Co-Principal Investigator, "Integrating Computational and Creative Thinking (IC2Think)." National Science Foundation, 2011-2014; $250,000 TUES Grant (Grant# DUE-1122956); with Leen-Kiat Soh, PI & others (30% credit).

Co-Principal Investigator/Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2012-2013; $209,723 Contract; with Ian Newman, PI and Megan Hopkins (33% credit).

Co-Principal Investigator/Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2011-2012; $186,300 Contract; with Ian Newman, PI (66% credit).

Co-Principal Investigator/Evaluator, "A Civic Engagement Certificate: Promoting Life-Long Habits of Civic Engagement and Student Psychosocial Well-being at the University of Nebraska-Lincoln." Bringing Theory to Practice, Association of American Colleges and Universities, 2010-2012; $100,000 (Foundation), $257,660 (total project) grant with Linda Major and Nancy Mitchell (33% credit).

Co-Principal Investigator/Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2010-2011; $176,763 Contract; with Ian Newman, PI (75% credit).

Co-Principal Investigator/Evaluator, "NU Directions: Reducing College High-Risk Drinking Through Comprehensive Evidence-Based Programming.**"** U.S. Department of Education, Office of Safe and Drug Free Schools, Models of Exemplary, Effective, and Promising Alcohol or Other Drug Abuse Prevention Programs on College Campuses, 2010-2011; $137,000 Grant (Grant #Q184N100007); with Ian Newman, PI (33% credit).

Co-Principal Investigator/Evaluator, "The Nebraska Collegiate Consortium to Reduce High Risk Drinking." U.S. Department of Education, Office of Safe and Drug Free Schools, 2009-2011; $374,993 Grant (Grant# Q184Z090031); with Ian Newman, PI. (50% credit)

Co-Principal Investigator/Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2009-2010; $161,470 Contract; with Ian Newman, PI (75% credit).

Co-Principal Investigator, "Renaissance Computing at the University of Nebraska-Lincoln." National Science Foundation, 2008-2010; $149,970 CPATH Grant (Grant# CNS-0829647); with Leen-Kiat Soh & others, PI. (11% credit). Additional RET Supplemental funds of $25,000 awarded 8/2008 and 5/2010 and REU Supplemental funds of $16,000 awarded 4/2009.

Research Coordinator, "Lancaster County Alcohol Abuse Prevention Partnership." Governor's Strategic Prevention Framework State Incentive Grant (SPF SIG), Nebraska Department of Health and Human Services, from Substance Abuse and Mental Health Services Administration, U.S. Department of Health and Human Services, 2008-2009, $60,000 Planning Grant; Kit Boesch, PI (10% credit).

Co-Principal Investigator/Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2008-2009; $153,374 Contract; with Ian Newman, PI (50% credit).

Project Evaluator, "Lied Center for the Performing Arts Creative Campus Innovations Project." Association of Performing Arts Presenters, 2007-2009; $103,170 APAP Grant funds, $348,609 total project budget; Charles Bethea, PI (10% credit).

Project Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2007-2008; $144,809 Contract; Ian Newman, PI (50% credit).

Project Evaluator, "Brief Intervention Program." Nebraska Office of Highway Safety, 2006-2007; $61,745 Contract; Ian Newman, PI (50% credit).

Project Evaluator, "Nebraska Collegiate Consortium to Reduce High Risk Drinking." Nebraska Office of Highway Safety, 2006-2007; $57,876 Contract; Ian Newman, PI (50% credit).

Project Evaluator, "Reducing Alcohol Related Harms Among Nebraska College Students Through Comprehensive Environmental Strategies: Replicating the NU Directions Model.**"** U.S. Department of Education, Office of Safe and Drug Free Schools, Alcohol and Other Drug Prevention Models on College Campuses, 2005-2006; $99,745 Grant (Grant #Q184N050025); Ian Newman, PI (33% credit).

Project Evaluator, "Web-based Brief Alcohol Intervention Program with Localized Motivation Feedback for College Students." Nebraska Office of Highway Safety, 2005-2006; $30,800 Grant; Ian Newman, PI (25% credit).

Project Evaluator, "Education Intervention to Reduce the Likelihood of Smokeless Tobacco Use." Nebraska Department of Health and Human Services, Cancer and Smoking Disease Research, 2005-2006; $39,996 Grant; Ian Newman, PI (10% credit).

Project Evaluator, "Greek Reevolution: Enabling Cultural Change in Greek Life." U.S. Department of Education, Office of Safe and Drug Free Schools, 2003-2005; $293,936 Grant (Grant # Q184H030032); Thomas Workman, PI. (10% credit).

Senior Faculty and Educational Evaluator, "The Cosmic Ray Observatory Project." National Science Foundation, 2000-2005; $1,342,002 Grant (Grant #9911855); Gregory Snow, PI (10% credit).

Project Evaluator, "Smokeless Tobacco Use Expectancies." Nebraska Department of Health and Human Services, Cancer and Smoking Disease Research, 2000-2001; $39,998 Grant; Ian Newman, PI (10% credit).

Research and Evaluation Coordinator, "Project Circle: Knowledge Building Communities for Training Secondary Teachers and Teacher Education Professors in Integration of Technology in Core Curriculum." U. S. Department of Education, Secretary's Fund for Innovation in Education, 1993-1995; $377,020 Grant (Grant #R215D30195); Paul Resta, PI (10% credit).

Principal Investigator, "The Relation of Motivational Beliefs to Self-Selected Reading." University Research Institute, University of Texas at Austin, 1995; $450 Special Research Grant (URI Project SRG-166) (100% credit)

Principal Investigator, "The Effects of Instruction on Motivational Beliefs and Strategies During Reading: An Analysis of the Real Time Expression of Beliefs and Strategies." University Research Institute, University of Texas at Austin, 1993; $500 Special Research Grant (URI Project SRG-773) (100% credit).

Principal Investigator, "Effects of Motivational Self-Beliefs on Cognitive and Behavioral Processes in Reading and Writing." University Research Institute, University of Texas at Austin, 1991-92; Summer Research Award of two month salary (100% credit).

Principal Investigator, "Motivational Effects on Cognitive and Behavioral Processes in Writing: The Role of Self-Beliefs." University Research Institute, University of Texas at Austin, 1991-92; $600 Research Grant (URI Project R-152) (100% credit).

Principal Investigator, "Relation of Achievement Motivation Beliefs to Problem Solving Skill." University Research Institute, University of Texas at Austin, 1991; $400 Special Research Grant (URI Project SRG-696) (100% credit).

Research Coordinator, "Project InfoNet." U. S. Department of Education, Office of Special Education Research Services, 1988-1990; $131,000 Grant (Grant #H180P80001); David Beukelman, PI (33% credit).

CONSULTING ACTIVITIES

2017   **Research Consultant**, Buffalo Beach Company, Lincoln, NE.

        Conduct evaluation of "Failsafe, Leaders Setting the Tone: A Student Leader Tool to Reduce Group Member Risky Alcohol Consumption" project survey of participants and write evaluation report on contract from American Institutes for Research.

2007-2016   **Research Consultant**, Community Asthma Education Initiative and Complete Children's' Health, Lincoln, NE.

        Assist in grant writing and initiative evaluation design. Assisted development of research design and data analysis for "*The Role of Clinical Education, Self-Efficacy, and Locus of Control in Pediatric Asthma Outcome Measures*" clinical trial study.

2000-2011   **Research Consultant**, Buffalo Beach Company, Lincoln, NE.

        Conduct annual analysis of Nebraska statewide seatbelt use for Nebraska Office of Highway Safety.

2008   **Research Consultant**, Buffalo Beach Company, Lincoln, NE.

        Assist is developing updated sampling plan for annual survey of Nebraska seatbelt use for Nebraska Office of Highway Safety.

2006-2007   **Research Consultant**, University of New Mexico, Albuquerque, NM.

Assist development of research design and data analysis for "*Assessing Cognitive Diversity: Implications for Hispanic, Native American, and White Children's Mathematics Learning.*" Supplemental Award for ROLE Grant # 0231774 from the National Science Foundation to Roxana Moreno, PI. Assisted in writing supplemental award proposal and led data analysis and report writing.

2004-2006   **Evaluation Consultant**, Midwest Consortium for Service-Learning, Student Involvement, University of Nebraska-Lincoln.

Assist Project Director in development of consortium evaluation plans and activities and identification of evaluation data and methods.
Presented two workshops on "Developing Logic Models and Evaluating Project Outcomes" to members of the Midwest Consortium for Service-Learning on 1/23/06 and 1/31/06.

2003   **Consultant**, Nebraska Health and Human Services System, Statewide Nebraska Asthma Program.

Conduct data analysis of the 2002 Nebraska Adult Asthma Survey data. Assist in data interpretation and report writing.

2002-2003   **Evaluation Consultant**, "Physical Activity through L.I.F.E. (Lincoln's Individualized Fitness Education)", Lincoln Public Schools, Lincoln, NE. U.S. Department of Education Grant.

Assist in overall evaluation of the project. Conduct instrument development, data analysis and report writing.

1993-94   **Evaluation Consultant**, "New Audiences Through New Technologies," Texas Humanities Resource Center, Austin, TX. National Endowment for the Humanities grant.

Provided guidance on ways to evaluate technology initiatives in the humanities for future grant proposals and conducted evaluation of the project. Assisted in overseeing grant administration and provided consultation on potential technology uses.

1993   **Evaluation Consultant**, "Professional Development and Technology Center" proposal to the Texas Education Agency for establishment of a Center for Professional Development and Technology in the College of Education, University of Texas at Austin.

Provided guidance on research and evaluation approaches and developed the research and evaluation plan for the grant proposal. Also, served on committees and collaborated with administrators, faculty, and teachers on development of the model teacher education program using computer software and distance education approaches proposed in the grant.

1992   **Evaluation Consultant**, "Central Corridor Collaborative" proposal to the Texas Education Agency for establishment of a Center for Professional Development and Technology in the College of Education, University of Texas at Austin.

Provided guidance on research and evaluation approaches and developed the research and evaluation plan for the grant proposal. Also, served on committees and collaborated with administrators, faculty, and teachers on development of the model teacher education program using computer software and distance education approaches proposed in the grant that involved cooperation between three area universities and five school districts.

1991-92   **Evaluation Consultant**, "Professional Development and Technology Center Planning Grant", College of Education, University of Texas at Austin. Texas Education Agency Grant.

Developed evaluation plan for the grant and conducted grant evaluation, including writing evaluation sections of the grant final report.

1987	**Evaluation Consultant**, "Building Family Strengths Project: Family Impact Evaluation, Center for Family Strengths, University of Nebraska-Lincoln.

Conducted evaluation of the Project, including writing the evaluation report for inclusion with the Project final report.

1986	**Evaluation Consultant**, "Building Family Strengths Project: Training Workshop Evaluation, Center for Family Strengths, University of Nebraska-Lincoln.

Conducted evaluation of the Project training workshops and wrote final evaluation report for inclusion with the Project final report.

PROFESSIONAL SERVICE

National

2022-25 Advisory Committee Member for the Digital Imaging and Vision Applications in Science (DIVAS) Alliance.

2021 Program Committee Member and reviewer [1 review] for the 20th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC 21), Virtual, October 29-31.

2021 Served on the Editorial Advisory Board (3 chapter reviews), for the book *Digital Distractions in the College Classroom*, Abraham Flanigan and Jackie Kim (Eds.), IGI Global.

2019 Program Committee Member and reviewer [3 reviews] for the 18th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC 19), Madrid, ES.

2017 Ad Hoc reviewer for the *IEEE Transactions on Education*

2017 Ad Hoc reviewer for *Contemporary Educational Psychology.*

2017 Poster mentor at the Southwest Consortium for Innovative Psychology in Education (SCIPIE) biennial meeting, Las Vegas, NV, October 2017.

2017 Ad Hoc reviewer for *Computer Science Education.*

2017 Program Committee Member and reviewer [5 reviews] for the 16th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC 17), Oxford University, UK.

2017 Served as Discussant for the paper session *Exploring Links Between Interest and Learning* at the American Educational Research Association Annual Meeting, San Antonio, TX, April-May 2017.

2016 Ad Hoc reviewer for the *IEEE Transactions on Education.*

2016 Session Chair, "*Cognitive Machine Learning*" at the 15th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC 16), Stanford University.

2016 Program Committee Member and reviewer [6 reviews] for the 15th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC 16), Stanford University.

2016 Ad Hoc reviewer for the journal *Contemporary Educational Psychology.* [2 reviews]

2016 Ad Hoc reviewer for the *Journal of Engineering Education.*

2015 Poster mentor at the Southwest Consortium for Innovative Psychology in Education (SCIPIE) biennial meeting, Albuquerque, NM, November 2015.

2015   Ad Hoc reviewer for the journal *Educational Psychology.* [2 reviews]

2015   Ad Hoc reviewer for the *Journal of Engineering Education.*

2015   Program Committee Member and reviewer [3 reviews] for the 14th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC 15), Beijing, China.

2014   Session Chair, "*MAT1: Mathematics in Engineering and Computer Science*" at the 44th Annual Frontiers in Education (FIE) Conference, Madrid, ES.

2014   Ad Hoc reviewer for the *Journal of Engineering Education.* [2 reviews]

2014   Ad Hoc reviewer for the journal *Educational Psychology.* [2 reviews]

2014   Program Committee Member and reviewer [3 reviews] for the 13th IEEE International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC 14), London, UK.

2013   Ad Hoc reviewer for the *Journal of Engineering Education*.

2012-13 Technology Coordinator and Board of Directors Member, Southwest Consortium for Innovative Psychology in Education (SCIPIE).

2013   Ad Hoc reviewer for the journal *Asia Pacific Educational Review*.

2012   Ad Hoc reviewer for the National Science Foundation (NSF), Division of Behavioral, Cognitive and Social Psychology, Social Psychology Program.

2012   Ad Hoc reviewer for the journal *Contemporary Educational Psychology*.

2012   Ad Hoc reviewer for *Journal of Science Education and Technology*.

2012   Ad Hoc reviewer for the journal *Educational Psychology*.

2009-12 Member at Large, Board of Directors, Southwest Consortium for Innovative Psychology in Education (SCIPIE).

2011   Reviewer for 2012 Graduate Student Award for the Studying and Self-Regulated Learning SIG, American Educational Research Association.

2011   Ad Hoc reviewer for the journal *Contemporary Educational Psychology*.

2011   Ad Hoc reviewer for the National Science Foundation (NSF), Division of Behavioral, Cognitive and Social Psychology, Social Psychology Program.

2011   Poster mentor at the Southwest Consortium for Innovative Psychology in Education (SCIPIE) biennial meeting, Norman, OK, November 2011.

2011   Ad Hoc reviewer for the journal *Asia Pacific Educational Review*.

2011   Ad Hoc reviewer for the journal *Educational Psychology*.

2011   Organized a Symposium titled " *Moving past blind men and the elephant: A profiles framework for understanding motivation and self-regulation*" presented at the American Educational Research Association Annual Meeting, New Orleans, LA, (April).

2011   Reviewer for 2011 Graduate Student Award for the Studying and Self-Regulated Learning SIG, American Educational Research Association.

2010   Ad Hoc reviewer for *Journal of Science Education and Technology*.

2009   Poster discussant at the Southwest Consortium for Innovative Psychology in Education (SCIPIE) biennial meeting, Las Vegas, NV, November, 2009.

2008   Ad Hoc reviewer for *Applied Psychology: An International Revi*ew.

2008   Ad Hoc reviewer for *Journal of Personality*.

2007   Served as a reviewer of proposals for Division C, Section 6 and Motivation SIG of the 2008 American Educational Research Association Annual Meeting.

2006   Served as a reviewer of proposals for Division C, Section 6 of the 2007 American Educational Research Association Annual Meeting.

2005   Served as a reviewer of proposals for Division C, Section 6 of the 2006 American Educational Research Association Annual Meeting.

2004   Served as a reviewer of proposals for Division C, Section 6 of the 2005 American Educational Research Association Annual Meeting.

2003   Served as a reviewer of proposals for Division C, Section 6 of the 2004 American Educational Research Association Annual Meeting.

1995   Served as a reviewer of proposals for Division C, Section 4 of the 1996 American Educational Research Association Annual Meeting.

1994   Ad Hoc Reviewer for the journal *Educational Researcher*.

1994   Reviewer for Merrill Publishing Company. Reviewed the plan for revising of Dale Schunk's text *Learning Theories: An Educational Perspective*.

1994   Served as a reviewer of proposals for Division C, Section 4 of the 1995 American Educational Research Association Annual Meeting.

1993   Served as a reviewer of proposals for Division C, Section 3 of the 1994 American Educational Research Association Annual Meeting.

1993   Served as Session Chair for three sessions at the American Educational Research Association Annual Meeting, Atlanta, GA, April, 1993.

1993   Served as Discussant for a paper session at the American Educational Research Association Annual Meeting, Atlanta, GA, April, 1993.

1992-93   Served as an Assistant Program Co-Chair for Division C, Section 3 of the American Educational Research Association for the 1993 Annual Meeting Program.

1992   Served as a facilitator of a "Birds of a Feather" open roundtable session at the National Reading Conference, San Antonio, TX, (December).

1992   Reviewer for Allyn & Bacon Publishing. Reviewed a chapter for the revision of Robert Slavin's *Educational Psychology* (4th Ed).

1992   Organized a Symposium titled "*Emerging Trends in College Students' Self-Regulatory Motivation: What Do We Know? Where Do We Go*?" at the American Educational Research Association Annual Meeting, San Francisco, CA, (April).

1992 Served on the National Reading Conference 1992 Program Committee as a reviewer of proposals for the 1992 National Reading Conference.

1991 Served as a facilitator of a "Birds of a Feather" open roundtable session at the National Reading Conference, Palm Springs, CA, (December).

1991 Reviewer for Longman Publishing Group. Reviewed the proposed text *Instructional Psychology: Principles and Practices*.

1990-91 Ad Hoc Reviewer for the journal *Educational Psychologist*.

Regional and Local

2013-18 Member, Nebraska Advocates for Highway Safety, Nebraska Office of Highway Safety, Department of Roads.

2013-18 Member, Nebraska's Statewide Epidemiology Outcomes Workgroup (SEOW), Nebraska Department of Behavioral Health, Health and Human Services.

2012 Attendee, Traffic Records System Strategic Planning Session, Nebraska Department of Roads.

2009-12 Member, Nebraska Substance Abuse Epidemiology Workgroup, Nebraska Department of Public Health, Health and Human Services.

2009-11 Member, Lancaster Alcohol Abuse Prevention Partnership.

2011 Panelist to the National Highway Traffic Safety Administration assessment team review of the Nebraska Traffic Records System. Provided testimony as a user of Nebraska Traffic Records Data for research.

2009 Presented results of a study of driver education to the CODES advisory committee, Department of Public Health, Nebraska Department of Health and Human Services.

2006 Worked with the Lincoln/Lancaster Community Asthma Initiative in the preparation of the 2006 Asthma Report Card.

2003 Worked with the Lincoln/Lancaster Community Asthma Initiative in the preparation of a community asthma report.

1999-07 Member, NU Directions Coalition, University of Nebraska-Lincoln.

1993-94 Advisory committee member, "New Audiences Through New Technologies," Texas Humanities Resource Center, Austin, TX.

1991 Conducted workshop on learning strategies and strategy instruction for faculty from Southwest Texas State University, (April).

1985 Conducted computer training workshop, Lincoln YWCA, Lincoln, NE.

1985 Computer search committee consultant, Lincoln YWCA, Lincoln, NE.

1978-83 Advisor for Junior Achievement of Lincoln.

University

2013-15 Member, Informatics Minor Development Group, University of Nebraska-Lincoln, [charged with developing an interdisciplinary Informatics Minor-minor approved 1/15].

2010-11 Member, Civic Engagement Project Advisory Committee, Office of Vice Chancellor for Academic Affairs and Office of Vice Chancellor for Student Affairs, University of Nebraska-Lincoln.

2007-08 Member, NU Directions Campus Task Force, University of Nebraska-Lincoln.

1999-07 Member, NU Directions Core Planning Team, University of Nebraska-Lincoln.

Department

2012-13 Member, QQPM Search Committee, Department of Educational Psychology, University of Nebraska-Lincoln.

1985 Conducted computer training workshop, Department of Human Development and the Family, University of Nebraska-Lincoln.

OTHER EDUCATION

2013 "Write Winning Grant Proposals" seminar by John Robertson of Grant Writers' Seminars and Workshops LLC sponsored by the Office of Research and Economic Development, University of Nebraska-Lincoln.

2013 "Project Evaluation for STEM Education Proposals and Projects" National Science Foundation sponsored Interactive Web-based Workshop (IWBW).

2013 "Using Epidemiological Data for Prevention of Substance Abuse and Mental Disorders" SAMHSA's Center for the Application of Prevention Technologies (CAPT) and State Epidemiological Outcomes Workgroup (SEOW) Contracts.

2012 "Federal Conflict of Interest On-line Tutorial", NIH, Office of Extramural Research.

2012 "Search Process Orientation Seminar" Office of Equity, Access, and Diversity Programs, University of Nebraska-Lincoln.

2008 National Science Foundation, Regional Grants Conference, University of Nebraska-Lincoln.

2003 Small Groups Model Norms-Challenge Intervention Training Workshop, by Far and Miller of Washington State University, University of Nebraska-Lincoln.

1990 New Faculty Teaching/Orientation Seminar, Center for Teaching Effectiveness, The University of Texas at Austin.

1985 Improving Classroom Communication Workshop, Teaching and Learning Center, University of Nebraska-Lincoln.

1985 Interactive Television Teaching Seminar, Teaching and Learning Center, University of Nebraska-Lincoln.

1981 Family Teacher Pre-Service Training Workshop, Father Flanagan's Boys Home, Boys Town, NE.

1977 Fellow, Life Management Institute (F.L.M.I.), Life Office Management Association, Atlanta, GA. Specializations: Electronic Data Processing, Management Science (1979), Managerial Accounting (1980).

PROFESSIONAL MEMBERSHIPS

American Educational Research Association
American Psychological Association
Scholarly Consortium for Innovative Psychology in Education (SCIPIE)