

ANDREW ZIMBROFF

Assistant Professor and Extension Specialist
Nebraska Extension
204 HECO Building
University of Nebraska-Lincoln
zimbhoff@unl.edu
(909) 560-5505

EDUCATION

THE UNIVERSITY OF TEXAS AT AUSTIN – Austin, TX

- Ph.D. in Mechanical Engineering, August, 2013, GPA 3.70
- Dissertation Title: *Occlusion of the Left Atrial Appendage Using Catheter-Delivered Hydrogels for Prevention of Thromboembolic Phenomena*
- Dissertation research has been patented and licensed for commercialization.

STANFORD UNIVERSITY – Stanford, CA

- MS in Mechanical Engineering, June 2009, GPA 3.44/4.0
- BS in Mechanical Engineering, June 2008, GPA 3.60/4.0

REFEREED PUBLICATIONS AND PROCEEDINGS

- Zimbhoff, A., Schlake, M., Anderson-Knott, M., Eberle, N., Vigna, D., (2017). Beyond Lemonade Stands To Main Street Business Development: A Youth Entrepreneurship Curriculum, *Journal of Extension*, 55(3), 1-6.
- Zimbhoff, A. (2016). Prototyping and Testing for Business Product Development. *Experiential Entrepreneurship Exercises Journal*, 2(2), 49-54.
- Gettens, R., Zimbhoff, A., Spotts, H., Houser, C., Taylor, A., Schoonmaker, M., An Intensive Experiential Entrepreneurship Program. (2016). *2016 American Society for Engineering Education Annual Conference and Exposition*, New Orleans, June 27, 2016.
- Zimbhoff, A., Taylor, A., Houser, C. (2016). Assessment of Learning Outcomes and Attitude Changes From Experiential Entrepreneurship Education. *2016 USASBE Conference Proceedings*, San Diego, January 10, 2016.
- Zimbhoff, A., Taylor, A. (2015). Customer Interviews for Early Stage Business Creation. *Experiential Entrepreneurship Exercises Journal*, 1(3), 15-19.
- Zimbhoff, A. (2015). Starting a New Business: Pre-Launch Research, *University of Nebraska-Lincoln Extension Publications*, EC 495.
- Zimbhoff, A., Schlake, M. (2015). Introduction to Pricing for a Product or Service. *University of Nebraska-Lincoln Extension Publications*, EC 496.

- Zimbhoff, A., Callan, J., Taylor, A., Houser, C. (In Review). An Evaluation Rubric to Enhance Experiential Entrepreneurship Education. *Entrepreneurship Research Journal*.
- Zimbhoff, A., Jorgensen, J. (In Preparation for resubmission). A Subjective Assessment of Young Adult Attitudes Towards Entrepreneurship in Bangladesh Using Q Methodology.
- Zimbhoff, A., Jorgensen, J., Callan, J. (In Preparation). An Assessment of Regional Entrepreneurship Ecosystems in Queensland, Australia Using a Mixed Methods Approach.

TEACHING AND CURRICULUM CREATION EXPERIENCE

Human Centered Design Workshop Lincoln, NE Oct. 2017

CASNR Undergraduate Scholars Program

- Created and delivered 5-week workshop to introduce Human Centered Design to Rwandan students studying at the University of Nebraska-Lincoln.
- Supervised student teams completing design projects to create Rwandan civic problems.
- Reviewing this curriculum for future application in US and Rwanda.

Mandela-Washington Scholars Lincoln, NE July 2017

Program

- Worked as part of multidisciplinary faculty team to implement 6-week program for 25 African leaders hosted in Lincoln, NE.
- Designed and implemented one-week curriculum entitled *Agribusiness, Innovation, and Entrepreneurship*, which included experiential workshops, agribusiness site visits, and guest speakers.

3 Day Startup: Advance Queensland May 2017

Online Checkpoint Webinar

- Wrote and delivered online seminar for alumni of experiential entrepreneurship programming.
- Curriculum introduced focused on developing a professional network for entrepreneurship: topics discussed included identifying and contacting potential mentors, and preparation for meetings.

Nebraska Extension Makerfest Mead, NE Mar. 2017

- Designed 30-minute interactive activity for high school students aimed to teach experimentation, data collection and analysis, and the scientific method.
- Delivered interactive activity to 68 students as part of overall workshop teaching creativity and making.

Human Centered Design Nebraska Extension Agriculture Jan. 2017
Experiential Seminar Literacy Initiative

- Taught design methodology and supervised experiential exercises to reinforce material.
- Created design prompts for experiential exercises focused on agricultural challenges, tailored to participant knowledge and area of interest.

3 Day Startup: Engler Agribusiness Lincoln, NE Sep. 2015
Entrepreneurship Program Sep. 2016

- Facilitated 3-day experiential workshop focused on creating innovative agribusiness startups.
- Helped participant businesses with investment pitch development and pursuit of venture capital after workshop completion.

3 Day Startup

- Designed pre- and post-program surveys, collecting data from ~2000 program participants.
- Analyzed survey data to identify areas for curriculum improvement. Created curriculum revisions and new educational modules based on results from this analysis.
- Facilitated experiential entrepreneurship workshops at post-secondary and non-profit institutions:

University of Nebraska-Kearney	Jan. 2017
Creighton University	Nov. 2017
	Nov. 2016
Austin Technology Incubator (Renewable energy entrepreneurship)	June 2016
University of Brasilia	May 2016
University of Nebraska-Lincoln – College of Business	Feb. 2016
North Alberta Institute of Technology	Feb. 2016
	Oct. 2015
University of California, Berkeley	Nov. 2015
University of North Alabama	Feb. 2015
Florida State University	Mar. 2014
Tufts Medical School	Apr. 2013
The University of Texas at San Antonio	Nov. 2012
The University of Texas at Austin (Biannual programs)	2011-2014

ESI: EntrepreneurShip Investigation Shickley, NE May 2015
Summer Camps Ord, NE June 2015

- Presented educational modules on customer research at youth entrepreneurship summer camp in rural communities.
- Conducted research on impact of youth entrepreneurship programming.

Startup Sprint Omaha, NE Mar. 2016
Nov. 2016

- Created 10 hour experiential entrepreneurship curriculum tailored to High School students.
- Piloted curriculum in both classroom and informal learning environments.

INTERNATIONAL TEACHING AND RESEARCH EXPERIENCE

3 Day Startup - Queensland, Australia Oct. 2016
Advance Queensland June 2017

- Facilitated six experiential entrepreneurship educational workshops in locations throughout Queensland, Australia, with over 250 total participants served by these workshops.
- Conducted evaluation of entrepreneurship ecosystems throughout Queensland using a mixed methods approach.
- Consulted with local entrepreneurship educators and government officials to improve teaching practices and local entrepreneurship resources.
- Conducted research on best practices for experiential entrepreneurship education.

Bangladesh Counter-Trafficking Jessore, Bangladesh June 2016
In Persons Rajshahi, Bangladesh

- Taught two 5-day workshops for aspiring entrepreneurs and survivors of human trafficking. A total of 54 participants were served by these workshops.
- Mentored Bangladeshi entrepreneurs aged 18-35, helping grow businesses to improve income.
- Consulted with local Non-Government Organizations to optimize use of resources and promote long-term financial sustainability.
- Awarded Presidential Volunteer Service Award for work on this project.

US-Brazil Startup Connection Brasilia, Brazil May 2016

- Helped Facilitate experiential entrepreneurship workshop for 50 Brazilian students
- Consulted with startups after program completion to continue development.

Human Centered Design Seminar Seoul, South Korea July 2013

- Taught experiential seminar introducing Human Centered Design to engineering students at Seoul National University
- Presented findings and guidelines for Human Centered Design to National Assembly of Republic of Korea.

PRESENTATIONS

Refereed Presentations

- Adams, J., Zimbhoff, A., Ngampornchai, A., Information Communication Technology Startup Business in Northeastern Thailand. May 2016. Presented at: The Fifth International Conference on Advancement of Development Administration 2016, Bangkok, Thailand.

- Aufdenkamp, B., Zimbhoff, A., From Lemonade Stand to Main Street: Development of Evolution of Youth Entrepreneurship Curriculum. October 2015. Presented at: 2015 NAE4-HA Annual Conference, Portland, OR.
- Zimbhoff, A., Taylor, A., The Role of Experiential Learning in Innovation and Entrepreneurial Education. June 2015. Presented at: 15th International Conference on Technology, Policy and Innovation, Milton Keynes, United Kingdom.
- Zimbhoff, A., Taylor, A., Assessment of Learning Outcomes and Attitude Changes From Experiential Entrepreneurship Education. May 2015. Presented at: Midwest Entrepreneurship Research Workshop, Kansas City, MO.

Other Presentations

- Zimbhoff, A. Entrepreneurship Research for the Modern Era. June, 2017. Presented at: Central Queensland University (Research Seminar), Rockhampton, Queensland, Australia.
- Zimbhoff, A. Experiential Entrepreneurship and Lean Startup Methodologies. November 2016. Presented at: Nebraska Agricultural Educators Association Fall Symposium, Grand Island, NE.
- Zimbhoff, A. Partnerships for University Invention Commercialization. November 2014. Presented at: Joint NCEA and UNL Extension Fall Conference, Kearney, NE.

FUNDED GRANT PROPOSALS

External Funding Proposals

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| 2017 | Investigator, “2017 National Youth Science Day: Smart Fitness.” National 4-H Council, Grant Total \$50,000. |
| 2017 | Investigator, “Measurement of the Impact of Experiential Entrepreneurship Education in Queensland, Australia.” Advance Queensland, Grant Total: \$2000. |
| 2016 | Investigator, “US-Brazil Startup Connection.” Mission Brazil (US Department of State), Grant Total: \$92,445. |
| 2015 | Investigator, “Innovations + Entrepreneurship Conference.” DECA, Grant Total: \$3,500. |

UNL Internal Funding Proposals

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| 2016 | Principal Investigator, “Exploring Outcomes of Experiential Entrepreneurship Workshop Alumni.” Social and Behavioral Sciences Research Consortium, Grant Total: \$2,814. |
| 2016 | Co-Principal Investigator “Precision Computer-Aided Fabrication with a Laser Cutter: A CEHS Research and Design Studio Funding Request.” UNL College of Education and Human Studies IT Student Technology Fees, Grant Total \$4,000. |

2015 Co-Principal Investigator, “CEHS Digital Research and Design Studio.” UNL College of Education and Human Studies Technology Innovation Project, Grant Total: \$13,106.

PROFESSIONAL EXPERIENCE

University of Nebraska-Lincoln Assistant Professor & Extension Specialist Oct. 2014-Present

- Department of Textiles, Merchandising, & Fashion Design.
- Delivered educational entrepreneurship programming for both youth and adults throughout the state of Nebraska.
- Provided ~240 hours of pro-bono consulting for Nebraska startups, promoting growth.
- Conducted research on entrepreneurship education and ecosystems conducive to promoting business creation and growth.
- Worked with international University partners to further international teaching and research collaborations.

3 Day Startup, Inc. Director of Research Jan. 2015-Present

- Designed data collection and evaluation methods for participants in extracurricular educational workshop.
- Analyzed survey data from over 2000 participants to refine and further develop entrepreneurship curriculum.
- Designed and delivered training and best practice workshops for entrepreneurship educators in diverse entrepreneurship ecosystems.

Texas Venture Labs Post-Doctoral Fellowship Sep. 2013-Aug. 2014

- Collaborated with university Office of Technology Commercialization to develop new pipeline for improved technology transfer to industry. Oversaw application of this pipeline for five businesses based on professor research.
- Led multidisciplinary graduate student teams to complete consulting projects for Austin startups.
- Designed and applied data collection metrics to gauge program efficacy for students and served companies.

PATENTS

- US Patent 2014/0277070 “Methods, Compositions, and Devices for the Occlusion of Cavities and Passageways,” awarded September 18, 2014.
- European Patent 2014025778, “Methods, Compositions, and Devices for the Occlusion of Cavities and Passageways,” awarded October 28, 2015.

UNIVERSITY SERVICE

University Intercollegiate Athletic Committee Aug. 2016-Present

- Review and revised academic policies for student athletes.
- Evaluate nominees and select winners for University student-athlete awards.

University Judicial Board Sep. 2015-Present

- Sat on hearing boards to handle student academic disciplinary cases.
- Sat on hearing boards to handle Title IX hearings.

TMFD Professional Advisory Committee Sep. 2015-Present

- Planned career advisory days where students are introduced to careers in industry, and advised on early career planning.
- Maintained relationships with department Advisory Counsel members, and pursued new advising and career opportunities for students.

University of Nebraska-Lincoln Faculty Search Committees

- Served on search committees to recruit and evaluate candidates for faculty positions.
- Chaired: 2
- Served: 1

HONORS AND AWARDS

Presidential Volunteer Service Award 2016

- Award issued by President's Council on Service and Civic Participation and Points of Light.
- Awarded for service provided to USAID Bangladesh Counter-Trafficking in Persons Program.

Cockerel Fellowship 2009-2013

- Financial assistance offered by Cockrell School of Engineering to select engineering doctoral students.
- Renewed annually for three years.

Finalist, Idea to Product Competition 2011

- Contest evaluating ability to commercialize technology.