Web: <u>www.chendw.com</u> Phone: 407-456-4323 (mobile) Email: <u>chen.darwei@gmail.com</u>

Areas of (some) expertise:

Learning sciences Human factors Research methods

Personal data

- Citizenship: United States of America | Birthplace: Ann Arbor, MI (1990) | Gender: Male
- > Languages: Speak English and Mandarin Chinese fluently, passed International Baccalaureate Spanish exam

Recent work experience

Senior cognitive engineer, MITRE Corporation

- IRS online services: Improving the online user experience of the Taxpayer Digital Communications (TDC) and Tax Withholding Estimator (TWE) systems and the accessibility of IRS online services generally (users with vision loss, limited English proficiency)
- COVID-19 vaccine distribution: Modeling the entities, steps, and performance standards necessary to achieve the Biden White House vision of 100 million Americans vaccinated within 100 days
- Targeting process (Fires Support Next, ASTARTE): Facilitating decision-making and lowering human workload in the targeting process (esp. close air support and airspace deconfliction) via human factors, task analysis, and process modeling; objectives: a smarter, faster, safer, and more accurate targeting process for U.S. soldiers
- UAS Traffic Management (UTM): Using process modeling to help the FAA: A) describe the common entities and actions involved in its "Remote ID" initiative for unmanned aerial systems, and B) devise rules governing these entities and actions
- Website usability: Performed surveys, interviews, and heuristic evaluations to improve the usability of the Adaptive Acquisition Framework (AAF) website, which enables defense acquisition personnel to better navigate policies and documents (project for the Under Secretary of Defense)
- **Effects Chain Analysis Platform**: Wireframing and user workflow design of centralized repository for MITRE analysts
- Autonomy Roadmap: Advising the DoD on technological investments to advance the use of autonomous systems in the U.S. military; focus areas: C2 systems, common operating picture, automation transparency, streamlined communication

Research scientist, Soar Technology

April 2018 – June 2019

- Complex cognitive skills (CCS) research (Army Research Institute, or ARI): Created a framework that outlines current CCS research and provides a road map for future CCS research and training; enabled Northrop Grumman and ARI to better select training methods, select skill evaluation techniques, evaluate environment factors, and navigate team concerns
- Lifelong learning portal (Advanced Distributed Learning Initiative, or ADL): Designed user experience and led functional requirements documentation for the production of an online tool that facilitates how military personnel complete their work, track progress on goals, engage in non-work activities, and plan for the future
- Fishing video game (Naval Air Warfare Center Training Systems Division, or NAWCTSD): Designed experimental plan and user experience for a video game in which the tasks required of players (controlling a fleet of drones to catch fish in a lake) are substantively analogous to the tasks required of P-8 anti-submarine warfare instructors during teaching periods; the experiment tests the effectiveness of various game interface transparency levels and various speech recognition grammar sets. ("DroneFisher was a finalist at the 2019 I/ITSEC Serious Games Showcase and Challenge)
- Social information processing (SIP) in children: Identified behavioral indications that can improve the accuracy of virtually assessing the SIP skills of children (dwell time, keyboard actions, mouse movements, scenario replaying, changes in selected response); these indications will be implemented as metrics in the web-based Virtual Environment for Social Information Processing (VESIP) assessment program to infer measures such as affect, engagement, and effort level

December 2019 – present

GPA: 3.9

Ph.D., Engineering Psychology

- ➢ Graduation date: May 2018
- Dissertation (defended on February 21, 2018 passed with minor revisions) An investigation of pedagogical interventions within the productive failure methodology Committee: Richard Catrambone (adviser), Phil Ackerman, Jamie Gorman, Mark Guzdial, Rick Thomas,

Georgia Institute of Technology

University of Michigan – Ann Arbor GPA: 3.5

- Minor: Human-Computer Interaction
- Finalist, James D. Foley Scholarship (GVU, 2017): Named one of the top design/tech PhD students at GT
- Recipient, Larry S. O'Hara Scholarship (College of Sciences, 2017): Top senior doctoral student in GT CoS
- ➢ Georgia Tech Presidential Fellowship (2012)

B.S.E., Industrial and Operations Engineering

- ➢ Graduation date: May 2012
- ➢ Minor: Clarinet Performance

Past work experience

Research intern, Army Research Laboratory

- > Worked on a simulated shooting range designed to teach cadets marksmanship fundamentals through the use of adaptive tutoring feedback (powered by GIFT, the Generalized Intelligent Framework for Tutoring)
- Presented work on "productive failure" instructional technique for potential use in future ARL projects \geq
- Analyzed existing research on leadership principles for potential use in future ARL projects \triangleright

Columnist, The Michigan Daily

- Opinion Columnist (Winter 2011, Fall 2011, Winter 2012): Wrote bi-weekly columns on current events \geq
- \geq Editorial Board (Winter 2012): Reviewed newspaper's positions on current issues

Research intern, Institute for Simulation and Training

- > CDL Driver Distraction study (funded by Department of Transportation): Examined the effects of various distractions on commercialized truck drivers while recording EEG and ECG responses
- > Perceptually-informed Virtual Environment study (PerceiVE; funded by the Office of Naval Research): Examined the effects of visual fidelities on training transfer while recording EEG and ECG responses
- Mixed Initiative eXperimental (MIX) testbed: Helped design experiments on human-robot interaction in multitasking and multi-modal environments (funded by Army Research Laboratory)
- Robotics Collaborative Technology Alliance (funded by Army Research Laboratory): Presented a literature review on \geq human-robot interaction

Professional affiliations

Human Factors and Ergonomics Society – Georgia Tech chapter (2012-2018; served as president in 2015-2016)

Human Factors and Ergonomics Society (2012 – present)

January 2011 - May 2012

Summer 2016

Summer 2010, Summer 2011

- Chen, D., Chase, V., Burkhardt, M., & Agulto, A. (2016). Using industrial engineering and human factors design principles to improve accuracy and speed of drug selection. *Joint Commission Journal of Quality and Patient Safety*, 42 (10), 473-477.
- Gable, T.M., Chen, D., Darling, C.M., McGlynn, S., Kazi, S., Preusse, K., Yoo, A., & Schaeffer, L.M. (2016).
 Recommendations for improving the American voting process through the application of human factors principles.
 Ergonomics in Design: The Quarterly of Human Factors Applications, 24 (3), 4-8.
- Goldberg, B., Amburn, C., Ragusa, C., & Chen, D. (2017). Modeling Expert Behavior in Support of an Adaptive Psychomotor Training Environment: A Marksmanship Use Case. *Intl. Journal of Artificial Intelligence in Education*, 28 (2), 194-224.
- Margulieux, L.E., **Chen, D.**, McDonald, J.D., Bujak, K.R., Gable, T.M., Darling, C.M., Schaeffer, L.M, & Barg-Walkow, L.H. (2016). Online Collaboration Applications Evaluated by Ease of Use. *Ergonomics in Design: The Quarterly of Human Factors Applications*, 24 (2), 21-30.

Book chapters

- Folsom-Kovarik, J.T., Chen, D., Mostafavi, B., & Freed, M. (2019). *Personalization*. In J.J. Vogel-Walcutt (Ed.), *Advanced Distributed Learning Academy*.
- Schaeffer, L.M., Margulieux, L.E., **Chen, D.**, & Catrambone, R. (2016). Feedback via Educational Technology. In L. Lin & R. Atkinson (Eds.), *Educational Technologies: Challenges, Applications, and Learning Outcomes*

- Amburn, C.R., Goldberg, B.S., Chen, D., Ragusa, C., Boyce, M.W., & Shorter, P. (2016). Effects of equipment on model development for adaptive marksmanship trainers. Paper presented at the *Interservice/Industry Training, Simulation, and Education Conference* (I/ITSEC) 2016, Orlando, FL.
- **Chen, D.** & Catrambone, R. (2019). Productive failure and subgoal scaffolding in novel domains. *Proceedings of the 21st International Conference on Human-Computer Interaction*.
- **Chen, D.** & Catrambone, R. (2016). Facilitating spatial task learning in interactive multimedia environments while accounting for individual differences and task difficulty. *Proceedings of the 38th Annual Meeting of the Cognitive Science Society* (pp. 1925-1930). Austin, TX: Cognitive Science Society.
- Chen, D. & Catrambone, R. (2015). Paper vs. Screen: Effects on Reading Comprehension, Metacognition, and Reader Behavior. Proceedings of the 59th Annual Meeting of the Human Factors and Ergonomics Society (pp. 332-336). Santa Monica, CA: Human Factors and Ergonomics Society. [Best Student Paper, Education Technical Group – HFES 2015]
- **Chen, D.** & Catrambone, R. (2014). Effects of multimedia interactivity on spatial task learning outcomes. *Proceedings of the* 58th Annual Meeting of the Human Factors and Ergonomics Society (pp. 1356-1360). Santa Monica, CA: Human Factors and Ergonomics Society.
- Chen, D., Neville, K.J., Massey, L., Burbelo, G.A., Blankenbeckler, P.N., Normand, S., & Uhl, E. (2019). Toward a definition of complex cognitive skill. *Proceedings of the 63rd Annual Meeting of the Human Factors and Ergonomics Society*.
- Chen, D., Schaeffer, L.M., Preusse, K., Gable, T.M., Hartzell, C., McGlynn, S., Yoo, A., Gipson, C., & Kim, D. (2018). Improving the U.S. Adult Immunization Schedule by Applying Usability Principles. *Proceedings of the 62nd Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society.
- Cochran, Z., Tomlinson, B., **Chen, D.**, & Patel, K. (2014). LightWeight: Wearable Resistance Rehab Visualization. *Proceedings of the 27th Annual ACM Symposium on User Interface Software and Technology* (pp. 101-102). New York, NY: Association for Computing Machinery.
- Folsom-Kovarik, J. & Chen, D. (2018). Data Analytics Can Make Existing Web-Delivered Assessments More Informative [Abstract]. *Proceedings of the 59th Annual Meeting of the Psychonomic Society* (p. 64). Madison, WI: Psychonomic Society.
- Folsom-Kovarik, J., **Chen, D.**, Mostafavi, B., & Brawner, K. (2019). Measuring the complexity of learning content to enable automated comparison, recommendation, and generation. *Proceedings of the 21st International Conference on Human-Computer Interaction*.
- Neville, K.J., Chen, D., Massey, L., Cowell, T.S., Burbelo, G.A., Blankenbeckler, P.N., Normand, S., & Uhl, E. (2019). A complex cognitive skills framework. *Proceedings of the 14th International Conference of Naturalistic Decision Making*.
- Sollins, B., **Chen, D.**, Reinerman-Jones, L.E., & Tarr, R. (2014). Truck Driving Distractions: Impact on Performance and Physiological Response. *Proceedings of the 58th Annual Meeting of the Human Factors and Ergonomics Society* (pp. 2171-2175). Santa Monica, CA: Human Factors and Ergonomics Society.

- Amburn, C.R., Goldberg, B.S., Chen, D., Ragusa, C., Boyce, M.W., & Shorter, P. (2016, December). Effects of equipment on model development for adaptive marksmanship trainers. Interservice/Industry Training, Simulation, and Education Conference, Orlando, FL.
- **Chen, D.** & Catrambone, R. (2016, August). *Facilitating Spatial Task Learning in Interactive Multimedia Environments While Accounting For Individual Differences and Task Difficulty*. Cognitive Science Society 38th Annual Meeting, Philadelphia, PA.
- **Chen, D.** & Catrambone, R. (2015, October). *Paper vs. Screen: Effects on Reading Comprehension, Metacognition, and Reader Behavior.* Human Factors and Ergonomics Society 59th Annual Meeting, Los Angeles, CA.
- **Chen, D.** & Catrambone, R. (2014, October). *Effects of multimedia interactivity on spatial task learning outcomes*. Human Factors and Ergonomics Society 58th Annual Meeting, Chicago, IL.
- Chen, D., Neville, K.J., Massey, L., Burbelo, G.A., Blankenbeckler, P.N., Normand, S., & Uhl, E. (2019). *Toward a definition of complex cognitive skill*. 63rd Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA.
- **Chen, D.**, Schaeffer, L.M., Preusse, K., Gable, T.M., Hartzell, C., McGlynn, S., Yoo, A., Gipson, C., & Kim, D. (2018). *Improving the U.S. Adult Immunization Schedule by Applying Usability Principles*. 62nd Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, PA.
- Cochran, Z., Tomlinson, B., **Chen, D.**, & Patel, K. (2014, October). *LightWeight: Wearable Resistance Rehab Visualization*. 27th Annual ACM Symposium on User Interface Software and Technology, Honolulu, Hawaii.
- Folsom-Kovarik, J. & Chen, D. (2018). Data Analytics Can Make Existing Web-Delivered Assessments More Informative. 59th Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Folsom-Kovarik, J., **Chen, D.**, Mostafavi, B., & Brawner, K. (2019, July). *Measuring the complexity of learning content to enable automated comparison, recommendation, and generation*. 21st International Conference on Human-Computer Interaction, Orlando, FL.
- Neville, K.J., Chen, D., Massey, L., Cowell, T.S., Burbelo, G.A., Blankenbeckler, P.N., Normand, S., & Uhl, E. (2019, June). *A complex cognitive skills framework*. 14th International Conference of Naturalistic Decision Making, San Francisco, CA.
- Sollins, B., Chen, D., Reinerman-Jones, L.E., & Tarr, R. (2014, October). *Truck Driving Distractions: Impact on Performance and Physiological Response*. Human Factors and Ergonomics Society 58th Annual Meeting, Chicago, IL.

 Catalyst Award (MITRE) Description: "stand-out contributions that align with our values and behaviors Role (May 2022): Recognized for helping MITRE complete its largest IRS usable Role (March 2022): Built process models to depict roles of new DARPA technol Role (June 2021): Co-authored report that compared various C2 systems for JAE 	lity task to date ogies in targeting proces	
 Spark and Applause awards (MITRE) Description: Appreciation awards from colleagues for contributions to project we 	Recipient: 7 times ork	last: 2021
 I/ITSEC Serious Games Showcase and Challenge Description: Recognizing the year's best in delivering instructional material thro Role: User experience, experimental design (Game: "DroneFisher") 	Finalist ugh games	2019
 James D. Foley Scholarship (GVU Center) Description: Awarded to top PhD students in design- and technology-related reserved. 	Finalist earch areas at Georgia Te	2017 ech
 Award for Excellence in Medication Safety Description: National award from American Society of Health-System Pharmaci wide system improvements relating to medication use." Role: Led student portion of team during Phase I of project 	Finalist sts recognizes "significar	2017 nt institution-
<i>Larry S. O'Hara Scholarship</i> → Description: Presented to a top senior-level doctoral student in the Georgia Tech	Recipient College of Sciences	2017
Graduate Student Instructor of the Year – School of Psychology → Description: Recognized as best graduate student instructor in the Georgia Tech	Recipient School of Psychology for	2016-2017 r 2016-2017
 Human Factors and Ergonomics Society Student Chapter Awards ➢ Description: Georgia Tech chapter of HFES fulfilled service, outreach, collabora ➢ Role: President during 2015-2016 school year 	Gold Award tion, and improvement c	2015-2016 riteria
 Best Student Paper Award – HFES Education Technical Group Description: Paper titled "Paper vs. Screen: Effects on Reading Comprehension, was unanimously ranked as the best student paper in the Education Technical Group 		
 National Ergonomics Month Action Plans Description (2015): Georgia Tech's plan (Space Race: Humans vs. Aliens) won promote awareness of human factors and ergonomics. Description (2014): Georgia Tech's plan (Bad Design Atlanta) won second place Role: Co-authored both submission documents and event plans 	*	
 Human Factors and Ergonomics Society "Voting System of Tomorrow" competition ➢ Description: Georgia Tech won first place in an HFES-sponsored competition of design the American voting process with a human factors focus. ➢ Role: One of three team leaders (led team during writing phase and ballot interface) 		Oct. 2014 nity to re-
Best of the Michigan Daily → Description: Wrote the newspaper's best opinion column of the week (as decided)	Recipient (4x) d by managing editors)	2011-2012
 Eugene Bossart Concerto Competition (University of Michigan) Description: Won grand prize and performed Concertino (Weber) with the Camp 	Winner ous Symphony at Hill Au	Apr. 2011 ditorium

Honors and awards

George M. Landes Prize for Technical Communication (freshman division) Runner-up Apr. 2009 → Description: Team won second place in a technical writing competition (topic: bi-leaflet heart valves)

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Service and	professional	activities

 Engineering psychology student representative to the faculty (Georgia Tech) Represented the engineering psychology department's doctoral students in month psychology faculty and general faculty 	2016-2017 school year hly meetings of the engineering
 Immunization schedule redesign (Centers for Disease Control) Led HFES student chapter in redesign of CDC immunization schedules to be use (supervisor: Dr. David Kim) 	2015-2016 school year ed in doctors' offices for reference
 Leucine Zipper Science Show (part of the Atlanta Science Festival) > Used card tricks to illustrate various scientific concepts 	March 2015
Guest speaker, Winter Park High School → As past graduate (c/o 2008), spoke to freshmen about life/career opportunities af	March 2015 ter high school
 Global Social Venture Competition Judged first round of idea submissions by aspiring entrepreneurs 	December 2014
 Bad Design Atlanta (part of National Ergonomics Month) Judged submissions from contest entrants 	Fall 2014
 The Psychology of Card Magic (presentation to the Atlanta Science Tavern) Presented card tricks to attendees and explained the psychology concepts underly 	August 2014 ying the tricks
 Lab representative, Engineering Psychology Advisory Committee Represented the Problem Solving and Educational Technology (PSET) laborator lab representatives to discuss current issues in the engineering psychology program 	
Atlanta Science Festival Wrote proposal for Georgia Tech chapter of HFES to receive science demonstrated	March 2014 tion funds
 Merit Badge Day Talked to local Boy Scout troop (Griffin, GA) about scientific research and high 	July 2013 er education
 Fernbank Museum's "Science at Hand" Day Performed demonstrations regarding the importance of user-centered design 	November 2012
 Code cart medication drawer redesign – Ann Arbor Veterans Affairs Hospital Used human factors principles to create user-friendly medication drawers Finalist for 2017 ASHP Award for Excellence in Medication Safety Improved nurses' retrieval speed and accuracy compared to existing drawer desi Work was presented at 2013 American Society of Health-System Pharmacists (A 	

- "Easy-read" vial holders patented by Health Care Logistics (Patent US 20150014492 A1)
 Partners: University of Michigan Health Services, Health Care Logistics

Review work

Journals

- IEEE Transactions on Human-Machine Systems
- > Theoretical Issues in Ergonomics Science
- ➢ Journal on Multimodal User Interfaces

Conferences

IEEE Systems, Man, and Cybernetics Society (SMC)	2021, 2022
Interservice/Industry Training, Simulation, and Education (I/ITSEC)	2018
Cognitive Science Society (CogSci)	2016, 2017
International Conference on Human-Computer Interaction (HCII)	2016
International Conference on Applied Human Factors and Ergonomics (AHFE)	2016
Human Factors and Ergonomics Society (HFES)	2015

Books

- *Educational Technologies: Challenges, Applications, and Learning Outcomes (Lin & Atkinson, 2016)*
- Trust in Human-Robot Interaction (Nam & Lyons, 2020)

Teaching

 Instructor of record – Georgia Institute of Technology, School of Psychology Engineering Psychology (undergraduate) 	3 times (last: Spring 2018)
 Laboratory instructor – Georgia Institute of Technology, School of Psychology Research Methods (undergraduate) 	4 times (last: Spring 2017)
 Co-instructor – Georgia Institute of Technology, School of Psychology Introduction to Psychology 	Aug. 2014 – Dec. 2014
 <i>"Psychology of Magic"</i> guest lectures Course: Sensation and Perception (5 times) Course: Engineering Psychology (5 times) Course: Cognitive Psychology (2 times) 	2014-2018
 Graduate teaching assistant – Georgia Institute of Technology, School of Psychology Introduction to Psychology Cognitive Psychology (undergraduate) Research Methods (undergraduate) 	Aug. 2012 – May 2016
 Instructional aide – University of Michigan, Industrial and Operations Engineering Instructional Aide – Entrepreneurship 	Jan. 2012 – May 2012

- **Chen, D.** (2015, November). *Productive failure*. Invited presentation to Georgia Tech Engineering Psychology Colloquia Series, Georgia Institute of Technology, Atlanta, GA.
- Chen, D. (2013, April). *Effects of multimedia interactivity on spatial task learning outcomes*. Invited presentation to Georgia Tech Engineering Psychology Colloquia Series, Georgia Institute of Technology, Atlanta, GA.

Other conference presentations

- **Chen, D.**, Gable, T., Gipson, C., Kazi, S., Preusse, K., & White, C. (2015, October). *Engineering psychology laboratories Georgia Tech School of Psychology*. Human Factors and Ergonomics Society 59th Annual Meeting, Los Angeles, CA.
- Gable, T., Chen, D., Illingworth, D., McGlynn, S., & Mumma, J. (2014, October). *Engineering psychology laboratories in the Georgia Tech School of Psychology*. Human Factors and Ergonomics Society 58th Annual Meeting, Chicago, IL.
- **Chen, D.** (2014, March). *Comparing usage of metacognitive prompts in reading from screens and paper*. Poster presented at the Georgia Tech Research and Innovation Conference, Georgia Institute of Technology, Atlanta, GA.

Miscellaneous presentations

- Chen, D. (2014, April). *Effects of multimedia interactivity on spatial task learning outcomes*. Presentation at the 2014 Spring GVU Digital Media Research Showcase, Georgia Institute of Technology, Atlanta, GA.
- **Chen, D.** (2013, November). *Effects of multimedia interactivity on spatial task learning outcomes.* Presentation at the Institute for People and Technology Forum, Georgia Institute of Technology, Atlanta, GA.
- **Chen, D.** (2013, October). *Effects of multimedia interactivity on spatial task learning outcomes.* Presentation at the 2013 Fall GVU Digital Media Research Showcase, Georgia Institute of Technology, Atlanta, GA.
- Bujak, K.R., Margulieux, L.E., Chen, D., Schaeffer, L.M., & Hughes, G.C. (2013, April). Understanding cognition to design better learning experiences. Presentation at the 2013 Spring GVU Digital Media Research Showcase, Georgia Institute of Technology, Atlanta, GA.
- Chen, D., Lloyd, D., Maziar, N., & Ramanathan, V. (2012, April). *Emergency Code Cart Medicine Tray Redesign*. Poster presented at the Winter Michigan Engineering Design Expo, University of Michigan, Ann Arbor, MI.

- Applied Cognition and Training in Immersive Virtual Environments Laboratory. (2012, December). STEM Student Showcase. *Science & Technology Innovations, Fall 2012*. Retrieved from: http://www.active.ist.ucf.edu/Portals/1/Docs/ST_Innovations_Fall2012_LowRes.pdf
- Cockrum, T. & Brown, J. (2015, February 24). Research on Multimedia Interactivity with Dar-Wei Chen. *Flipped Learning Podcast*. Retrieved from: http://flippedlearning.edreach.us/2015/02/25/flipped-learning-118-research-oninteractive-multimedia-with-dar-wei-chen/
- Cohn, J. (2011, October 26). Daily Deadline. *The New Republic*. Retrieved from: http://www.newrepublic.com/blog/jonathancohn/96737/daily-deadline-mississippi-v-birth-control
- The Garage (2018, September 4). Print vs. screen: How to remember what you read. *The Garage*. Retrieved from: https://garage.ext.hp.com/us/en/modern-life/reading-on-screen-on-paper-printing.html
- Human Factors and Ergonomics Society. (2014, November 10). Design Competition Teams Recognized for Advancing Voting Technology. *HFES News*. Retrieved from: https://www.hfes.org/web/DetailNews.aspx?Id=360
- IANS (2016, May). Download these free web apps to multi-task better. Featured in Yahoo!News, The Times of India, The Economic Times, The Statesman, Business Standard, Zee News, The Free Press Journal, Three Novices, Udaipur Kiran, Download Jozz, Vishva Times, LA Indian, Seattle Indian, Can India.
- Preston, J. (2016, May). Georgia Tech research finds that web apps for the workplace succeed to varying degrees. *GVU Center News Brief*. http://gvu.gatech.edu/georgia-tech-researchers-find-web-apps-workplace-are-succeeding-varying-degrees
- Preston, J. (2015, January 28). What the Rubik's Cube teaches us about online learning. *GVU Center News*. Retrieved from: http://gvu.gatech.edu/what-rubiks-cube-teaches-us-about-online-learning
- Smith, L. (2016, May). Which free web apps for collaboration are the most user-friendly?. Featured in EurekAlert.org, Newswise.com, Phys.org, Livenetworknews.com, Scienmag.com, Allmagnews.com, Healthmedicinet.com, Science Codex.
- Woods, S. (2017, February). FanRag Sports: The Starting 5. https://www.fanragsports.com/nba/starting-5-nba-trade-deadline-defined-unintended-consequences/

Psychology	Quantitative
Sensation and Perception	Statistical Analysis I (with SPSS)
Biopsychology	Statistical Analysis II (with R)
Data Visualization	Research Methods
Engineering Psychology – Stressors	Engineering Psychology – Analysis Techniques
Engineering Psychology II	Responsible Conduct of Research
Cognitive Psychology	
Psychomotor and Cognitive Skill Learning and Performance	
Human-Computer Interaction	
Web Usability and Access	

Other: Teaching practicum, Educational technology seminar

Relevant undergraduate coursework (University of Michigan – Ann Arbor)

Mathematics	Human factors	Statistics
Linear Algebra	Ergonomics (plus laboratory)	Markov Processes
Differential Equations	Human Error and Complex System Failures	Optimization Methods
Calculus I, II, and III (with Matlab)	Automotive Human Factors	Linear Statistical Models
		Operations Modeling
		Statistics and Probability
		Statistical Quality Control

Other: Entrepreneurship, Senior Design – Veterans Affairs Ann Arbor, Data Processing (Visual Basic), Technical Communication, System Simulations (ProModel), Manufacturing Strategies, Introduction to Programming (C++)

Personal development

 Freelance basketball writing (~80,000 article views)
 March 2016 – January 2018

 > 16 Wins A Ring (staff writer, NBA)
 Orlando Magic Daily (staff writer, Sports Illustrated – FanSided)

 Principal clarinetist and publicity chair, Michigan Campus Symphony
 Fall 2010, Winter 2011, Fall 2011

 Member, Michigan Solar Car Team
 Fall 2009

 > Helped organize team's workspace and received basic training on machining and power tools

 First clarinetist, University of Michigan Marching Band
 Fall 2008

Community service

- Assistant basketball coach at Ramay Junior High School (Fayetteville, AR): 2021-2022 season
- Youth basketball coach at Junior Magic (Sep. 2018 through Nov. 2019, under-8 and under-10 age groups)
- Volunteered at the United Cerebral Palsy of Central Florida over two summers (2006 and 2007) to help affected children lead normal and social lives
- Taught free private lessons to novice students at the Maitland Middle School Summer Band Camp (summers of 2006 and 2007)
- Built houses for under-privileged people at Habitat for Humanity (2005, 2012)