Rebecca J. Allen, PhD
Center for IT Engagement (cITe)
Mount St. Joseph University
5701 Delhi Rd, Cincinnati, OH 45233
+1 (585) 354-8986
rebecca.allen@msj.edu

Researcher who uses literacy, technology and artificial intelligence to better human wellbeing, particularly in health domains. Interested in supporting effective computer science pedagogy and inclusion of females in STEM fields.

WORK EXPERIENCE

Mount St. Joseph University
2023-2024
Center for IT Engagement (cITe)
School for Behavioral and Natural Sciences
[MSJ Center for IT Engagement (cITe)](#)
Assistant Professor and Chair of Computer Science and Mathematics

- Appointed to manage and reenvision newly merged Computer Science and Mathematics Departments.
- Reengineering mathematic curriculum and procedures to increase student success rates in historical math barrier courses.
- Using machine learning to develop predictive modeling of student retention and attrition.
- Launched AI Cafe, an initiative to provide university and community AI training in collaboration with undergraduate researchers.

Mount St. Joseph University
2023-2024
Center for IT Engagement (cITe)
School for Behavioral and Natural Sciences

[Social Computing Program and Computer Science Programs](#)
Assistant Professor and Program Coordinator
- Successfully recruited women to create a computer science program that is predominately (61%) female.

- Appointed to act as liaison between program department and admissions to create faculty-lead recruitment initiatives.
- Oversee departmental staffing and curricular initiatives.
- Piloted grant funded exchange programs with Laurea University in Finland, providing fully funded study abroad opportunities to students.
- Lead initiative to use online modalities to teach English as a Second or Other Language (ESOL) to Ukrainian displaced people.

Mount St. Joseph University
2020-2023
Center for IT Engagement (cITe)
School for Behavioral and Natural Sciences
https://www.msj.edu/academics/majors-minors-and-programs/computer-science-natural-language-processing.html
Social Computing (formerly Natural Language Processing)
Assistant Professor

Founding member of Center for IT Engagement which has an academic program, a research group, and business consulting/development group, all of which focus on using technology to better human health, social, and educational outcomes.

- Grew new Natural Language Processing computer science (recently renamed Social Computing) academic program from 0 to 43 students in three years.
  - Grew inclusivity–oversaw recruitment of a computer science cohort that is 59.16% minority, 30.95% first-generation, 21.42% rural, and 7.14% students with learning disabilities.
  - Re-engineered student research by pioneering first-year research methods for undergraduate course sequences to promote student-faculty research over all four years of undergraduate study.
  - Co-published peer-reviewed manuscripts successfully with undergraduate students.
- Raised over a half a million dollars as PI on research grants in health disparities and infant mortality.
- Raised over three million in Ohio grant funding (Choose Ohio First) to support STEM undergraduate education.
- Launched new international research-academic partnership with Laurea University (Helsinki, Finland); co-teach project based learning courses with them.
- Launched cooperation with area nursing facilities to provide students with technology (IT) in healthcare work-study experience. Managed the development of hand-recognition light projector games for elderly residents.

Universitat Oberta de Catalunya (UOC)
2019-2020
Center for Modern Languages
https://www.uoc.edu
English as a Foreign Language Instructor

- Taught online EFL classes at Spain's leading online university.
- Proficient in online instructional methods and working in cross-cultural environments.

University of Cincinnati
2017-2020
Instructor and Graduate Assistant
https://cech.uc.edu/about/centers/cesl.html

- Taught core English as a Second Language academic writing courses as well as redesigned speaking courses. Taught an introductory research methods course.
- Assisted in literacy and language program development, adjunct training, and program evaluation.
- Taught and conducted research in the context of a community outreach ESL for Latino immigrants program; honed experience in not-for-profits and community advocacy, and participatory and action research.

University of Rochester (2009-2016)
English as a Second Language Program Provider

- Designed and implemented comprehensive language evaluation and training for Arts, Sciences, and Engineering international graduate students.
  - Taught specialized cross-cultural communication and writing for research courses for international graduate students.
- Pioneered English as a Second Language program for Pre-College (High School) Programs with Chinese foundation. Created this program from the ground up. Provided curriculum development and staffing placement and management.
- Planned and implemented part-time streams and communication oriented curriculums that made programs attractive and accessible to community members, thereby increasing enrollment and revenues.
- Facilitated cross-departmental cooperation. Developed strategies and procedures to rollout shared, cross-departmental ESL programs.

**Applied Linguist Communications Consultant to
Iberdrola USA (Utility Industry), State Farm, Pepsi Bottling, Diamond Packaging,
STARS Air Ambulance and others** (2007-current)

Provided English as a Second language and public speaking coaching; developed Spanish as a Second Language program (Iberdrola):

- Designed and taught English as a Second Language courses to Iberdrola's expatriate management.
- Pioneered Spanish as a Second Language courses for English speaking management (to facilitate travel to Spain).

Designed/programmed online learning program (AccentSchool):

- Designed the curriculum and interface for ESL phonetics (pronunciation) software targeted at international professionals. Grew the business to include related in-person and distance based consulting and training.

Met management's operational needs with customized program design (Diamond Packaging):

- Conducted and implemented needs assessment based training programs for English as a Second language speakers within an industrial setting; managed staff for the program. Enabled management to better communicate with key employees, increasing operational efficiencies.

Provided communication coaching to international medical graduates (IMGs) at University of Rochester:
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- Assisted doctors in developing plans to communicate more effectively with their patients; closely familiar with healthcare.

York University (2005-2006)
Toronto, Ontario, Canada
English as a Second Language Learning Instructor
York University
http://eslolc.laps.yorku.ca/

- Taught ESL tutoring and small groups within the ESL Open Learning Centre, a pan-campus organization serving the entire non-native English speaking campus population.

EDUCATION

Ph.D. in Educational Studies (with a focus on computational linguistics and language acquisition), 2020
University of Cincinnati
Cincinnati, Ohio, United States

M.A., Linguistics"with honor", 2006
York University
Toronto, Ontario, Canada

B.A., Linguistics "magna cum laude", 2005
University of Cincinnati
Cincinnati, Ohio, United States

PUBLICATIONS

Allen, R. J., & Abrahams, A. C. (in press). Enhancing nephrology research with NLP and AI: A case for more comprehensive symptom documentation. *Kidney 360*.

Allen, R., Norton, S. A., & Saeed, F. (in press). Questions older people and caregivers ask about kidney therapies: A computer-assisted analysis. *Patient Education and Counseling*.

Saeed, F., Jawed, A., Dahl, S., Nedjat-Haiem, F. R., Duberstein, P. R., Fiscella, K. A., ... & **Allen, R. J.** (2024). Palliative Care Acceptability for Older Adults with Advanced CKD: A Qualitative Study of Patients and Nephrologists. *Kidney Medicine*, *6*(10), 100883.

Moreno-Medina, I., Martínez-Garrido, C., & **Allen, R. J.** (2024). Teachers' conceptions of democracy in education in schools in challenging and favorable contexts. International Journal of New Education, 14, 81–96. https://doi.org/10.24310/ijne.14.2024.20507

Allen, R., Holub, O., Snider, A., Batch, B., & Nakonechnyi, A. (in press). "I couldn't have come in-person": Empowering displaced voices through online English teaching for Ukrainian refugees." International Review of Qualitative Research.

Saeed, F., Horowitz, R. K., Allen, R. J., Auinger, P., Epstein, R. M., Fiscella, K. A., ... & Duberstein, P. R. (2024). Feasibility and Acceptability of a Palliative Care Intervention Among Older or Adults with Advanced CKD and their Caregivers. *Kidney360*, 10-34067.

Jawed, A., Batch, B., **Allen, R**., Epstein, R., Fiscella, K., Duberstein, P., & Saeed, F. (2024). Comparing Nephrologists' Self-Reported Decision-Making Skills and Treatment Attitudes With Their Patients' Experiences of Making Kidney Therapy Decisions and Receiving Nephrology Care. *American Journal of Hospice and Palliative Medicine*, 10499091241279939.

Allen, R., Batch, B., Holub, O., Nakonechnyi, A., Roberts, J., & Douglas, N. (2024). Understanding and meeting university AI needs: A pan campus survey. In Proceedings of Edulearn. Palma de Mallorca, Spain.

Allen, R. J., Nakonechnyi, A., Phan, T., Moore, C., Drury, E., Grewal, R., Liebman, S. E., Levy, D., & Saeed, F. (2024) Exploring patient needs and preferences in chronic kidney disease education: A cross-sectional survey study. *Kidney360*,1;5(3):344-351.

Nakonechnyi, A., Batch, B., Douglas, N., Tucker, C., Theuerling, A., Knox, M., & **Allen, R.** (2024). Retention reimagined: Participatory action and positive deviancy for university student success. *Journal of Participatory Research Methods,* 5(1). https://jprm.scholasticahq.com/article/94415-retention-reimagined-participatory-action-and-positive-deviancy-for-university-student-success

Sampath, R., Seshadri, S., Phan, T., **Allen, R**., Alnoori, R. Y., Duberstein, P., & Saeed, F. (2024). Uncovering patient and caregiver goals for goal-concordant care in kidney therapy decisions. *The American Journal of Hospice and Palliative Medicine.*

Saeed, F., Dahl, S., Horowitz, R. K., Duberstein, P. R., Epstein, R. M., Fiscella, K. A., & Allen, R. J. (2023). Development and acceptability of a kidney therapy decision aid for patients aged 75 Years and older: A design-based research involving patients, caregivers, and a multidisciplinary team. *Kidney Medicine*, *5*(7), 100671.

Saeed, F., , Allen, R.J., Eneanya, N.D., Tamura, M.K, Fiscella, K.A.,
(2023). Addressing Racial Injustice, Developing Cultural Humility, and Fostering Rapport-Building Communication Skills to Improve Disparities in End-of-Life Planning [letter to the editor]. Journal of Pain and Symptom Management, 66(3).

Saeed, F., Dahl, S., Horowitz, R., Duberstein, P.R, Epstein, R.M., Fiscella, K.A., and **Allen, R**. (2023). Development and Acceptability of a Kidney Therapy Decision Aid for Patients ≥ 75 years: A Design-Based Research Involving Patients, Caregivers, and A Multidisciplinary Team. *Kidney Medicine.*

Kazi, B., Duberstein, P., Kluger, B., Epstein, R., Fiscella, K., Kazi, Z., Dahl, S., **Allen, R.J.**, and Saeed, F**.** (in press) Prevalence and Correlates of Preference-Concordant Care Among Hospitalized People Receiving Maintenance Dialysis**.** *Kidney 360.*

Saeed, F., Ladwig, S., **Allen, R.J.**, Eneanya, N.D., Tamura, M.K, Fiscella, K.A.,
(2023). Racial Disparities in Health Beliefs and Advance Care Planning Among Patients Receiving Maintenance Dialysis. Journal of Pain and Symptom Management. 65(4).

Allen, R.J. (2022)**.** Ecological, post-Colonial, and critical theories of communication about health [Special issue]**.** *Communication Theory.* https://academic.oup.com/ct/pages/virtual-issue-ecological-post-colonial-and-critical-theories-of-communication-about-health

Allen, R.J. and Nakonechnyi, A**.** (2022). *Orphans, Displaced and Institutionalized Children: Causes of Children Growing Without Parents and a Sampling of Global Responses.* In *Palgrave Handbook of Global Problems.* https://link.springer.com/referenceworkentry/10.1007/978-3-030-68127-2_284-1

Malik, S.**, Allen, R.**, Vachharajani, T., Kluger, B., Ahmad; H., and Saeed, F. (2022). Dialysis Decision-Making, Dialysis Experiences, and Illness Perceptions: A Qualitative Study of Pakistani Patients Receiving Maintenance Dialysis. *Kidney Medicine.* 4(11)

Allen, R. and Saeed, F. (2022). Dialysis provider organization online information on kidney failure treatments: A content analysis using corpus linguistics. *Kidney Medicine.,* 4(6), 1-8.

Associated Editorial and Media Coverage:

Butler, C. and Watnick S. (2022). The Role of dialysis organizations in promoting and facilitating access to nondialytic treatment options . *Kidney Medicine.,* 4(6), 1-3.

Batch, B., Douglas, N., Roth, M., Nakonechnyi, A., **Allen, R.**, & Roberts, J. (2021)**.** Exploring felt barriers in rural young adults' college and career decision-making experiences through action research approaches. *Action Learning and Action Research Journal (ALARj)*, *27*(1), 63-92.

Allen, R., Nakonechnyi, A., Roberts, J., and Batch, B**.** Analyzing large sets of unstructured data: Case studies using natural language processing in research. (2020). Oral presentation and paper. at ICERI Sevilla, Spain

Saeed, F., Shah, A. Y., **Allen, R. J.**, Epstein, R. M., & Fiscella, K. A. (2021). Communication principles and practices for making shared decisions about renal replacement therapy: a review of the literature. *Current Opinion in Nephrology and Hypertension*, *30*(5), 507-51

Allen, R., Nakonechnyi, A., Seidman, A., Roberts, J**.** (2020). Predicting students' college drop out and departure decisions by analyzing their campus-based social network text messages. In Proceedings of the 53rd Hawaii International Conference on System Sciences (HICSS). Honolulu, HI. https://scholarspace.manoa.hawaii.edu/bitstream/10125/64387/0519.pdf

Batch, B., Roberts, J., Nakonechnyi, A., and **Allen, R.** (2021). Cell Phones under the Table": Meeting Students' Needs to Reduce Off-Task Smartphone Use through Faculty-Student Collaboration. *Journal of Educational Technology Systems, 49(4),* 487-500.

Allen, R., Nakonechnyi, A. & Benedetti, M. (2020): Anna's story: How a Ukrainian orphan's acquisition of English as a Second Language transformed her life. *Journal of Cognitive Education and Psychology.* 19(2), 107-119.

Allen, R. & Benedetti, M. (2019). Using corpus linguistics to look at phrases people actually say and implications for English as a Second Language speaking and pronunciation teaching. Oral presentation and paper at International Technology Education and Development Conference, Valencia, Spain.

Allen, R. & Benedetti, M**.** (2019). What women don't know can hurt them: Unraveling US maternal mortality through critical discourse analysis. *Health Education Journal. 78*(6).

Allen-Nakonechnaya, R. (2007). Addressing nonverbal communication in the ESL classroom: 'It's important…but should we?. *Contact. 33*(1), 23-37. http://contact.teslontario.org/wp-content/uploads/2016/09/ContactSpring2007.pdf

PRESENTATIONS

Conference Presentations and Invited Talks

Allen, R., Batch, B., Douglas, N., Nakonechnyi, A., & Holub, O. (2024, March). *Participatory pedagogy in AI: A framework for student-centered course design in higher education* [Poster presentation]. INTED2024: 18th International Technology, Education and Development Conference, Valencia, Spain**.**

Rivera, B., Canizares, S., Cojuc-Konigsberg, G., Holub, O., Nakonechnyi, A., Chumdermpadetsuk, R. R., Eckhoff, D. E., **Allen, R.**, & Pawar, A. (2025). *Transparency in kidney transplant recipient selection criteria: A nationwide analysis using artificial intelligence.* Paper presented at the BILH Artificial Intelligence and Machine Learning Symposium, Boston, MA, United States.

Allen, R.J. How To Use AI Strategically in the Workplace (invited). Center for Local Government [for Townships around Cincinnati, OH] at 2024 Administrative Professionals Luncheon.

Allen, R.J. What is AI and what can it do for us? (invited). Professional development session at Greater Cincinnati Collegiate Connection.

Allen, R.J. Health literacy and information accessibility to promote effective communication with patients (invited). Continuing medical education talk at 20th Annual Meeting of the Upstate and Western NY Council on Renal Nutrition. Rochester, NY.

Allen, R. J., Batch, B., Goerler, G., Thuererling, A., Douglas, N., Holub, O., & Nakonechnyi, A**.** (2024). Innovating together: Action research for student-driven technological transformation in higher education. Oral presentation at International Conference of Qualitative Inquiry, Urbana, Illinois.

Allen, R., Batch, B., Holub, O., Nakonechnyi, A., Roberts, J., & Douglas, N. (2024). Understanding and meeting university AI needs: A pan campus survey. *Edulearn*. Palma de Mallorca, Spain.

Allen, R. (accepted) "What is generative AI and how can it help me in business?" Invited lecture at University of Vienna, Vienna, Austria.

Allen, R. (accepted) "Patient literacy: It's so much more than just reading" Invited lecture at University of Rochester Dieticians' Conference, Rochester, NY.

Allen, R., Nakonechnyi, A., & Batch, B. (2024). Artificial intelligence and higher education: Analyzing campus attitudes towards emerging technologies. Presented at the Warsaw School of Economics, Warsaw, Poland.

Allen R. (2024) "[International AI] Project collaboration" Invited lecture at Laurea University International Week, Helsinki, Finland.

Allen R. (2024) "What is AI, anyways?" Invited lecture at Laurea University (Hyvinkää), Helsinki, Finland.

Allen, R., Batch, B., Snider, A., Holub, O. Nakonechnyi, A., & Roberts, J. Language Learning Needs Assessment of Displaced Ukrainian Persons: An Action Evaluation Project. Oral presentation at International Conference of Qualitative Inquiry, Urbana, Illinois.

Goeler, G., Olguin, G., Douglas, N., **et al**. (2023). "Students Helping Students: Promoting COF Program Retention through Student-Made Resources". Invited panel member at Choose Ohio First Scholar Showcase, Ohio Department of Education, Columbus, Ohio. https://ohiochannel.org/video/ohio-department-of-higher-education-4-11-2023-choose-ohio-first-scholar-showcase

Douglas, N. & **Allen, R**. (2023). Inaccessible and expensive: Barriers to rural education. Poster presentation and paper at International Technology and Education Conference, Valencia, Spain.

Batch, Brook, Roberts, J, Nakonechnyi, A. **Allen, R.** & Batch, Brielle. Building a chatbot for resource navigation and educational purposes: Lessons learned and developed of a white label version (2023). Oral presentation and paper at International Technology and Education Conference, Valencia, Spain.

Nakonechnyi, A. and **Allen R.** (2022) The case for human-centered research in computing. Invited lecture at Wabash College, Faculty of Computer Science, Crawfordsville, Indiana.

Malik, S**.,** Anwar, A., **Allen, R**. and Saeed, F. (2022). Nephrologists perspectives on kidney and dialysis care in Pakistan: A qualitative study. Poster presentation at ASN Kidney Week, Orlando, Florida.

Malik, S**.,** Anwar, A., **Allen, R**. Zaki, A., and Saeed, F. (2022). Perspectives of Pakistani dialysis patients on financial and psychological impact of dialysis decision making, prognostic understanding and end-of-life care. Poster presentation at ASN Kidney Week, Orlando, Florida.

Allen, R., Nakonechnyi, A., Batch, B. and Roberts, J. (2022)**.** Connecting during COVID: Engaging University Students with Closed Social Media. Oral presentation at OETC22 Flipping the Script, Columbus, Ohio.

Batch, B., Douglas, N., Roth, M. Nakonecnhyi, A., **Allen, R.**, and Roberts, J**.** (2020). Making college accessible to rural students: A participatory action research project. Oral presentation at ALARA, Launceston, Australia.

Allen, R., Nakonechnyi, A., Roberts, J., and Batch, B**.** Developing an app to reduce infant mortality through enhancing maternal education. (2020). Oral (turned virtual) presentation and paper. at ICERI Sevilla, Spain.

Allen, R., Nakonechnyi, A., Roberts, J., and Batch, B**.** Analyzing large sets of unstructured data: Case studies using natural language processing in research. (2020). Oral (turned virtual) presentation and paper. at ICERI Sevilla, Spain.

Batch, B., Roberts, J., Nakonecnhyi, A**.,** & **Allen, R.** (2020). *Understanding and reducing off-task mobile phone use in university classrooms.* Oral presentation at INTED Valencia, Spain.

Batch, B., Roberts, J., Nakonecnhyi, A**.,** & **Allen, R.** (2020). *Connect, engage, and stay (CEAS): The development and implementation of a targeted mobile message system to encourage university student persistence.* Oral presentation at INTED, Valencia, Spain.

Saeed, F., Ladwig, S., **Allen, R.**, Enenya, N. Kurella, T.M., & Fiscella, K. (2019). *Disparities in advanced care planning and prognostic discussions with physicians: Comparing African American and Caucasian patients who receive maintenance dialysis.* Poster Presentation at American Society of Nephrology (ASN) Kidney Week. Washington, D.C.

Nakonechnyi, A. & **Allen, R.** (2019). *Getting university students to finish what they started: Design, testing, and iteration of an app to promote student retention in higher education.* Oral presentation at Edulearn, Palma de Mallorca, Spain

Allen, R. & Benedetti, M. (2019). *Communication is the goal: Barriers, myths, and misconceptions in the teaching of ESL/EFL pronunciation.* Oral presentation at Edulearn, Palma de Mallorca, Spain.

Nakonechnyi, A.**, Allen, R.,** & Benedetti, M**.** (2019). *Learning English, going to college, thriving: An Eastern European orphan's story of success against the odds.* Oral presentation at International Colloquium on Languages, Cultures and Identity. Soria, Spain.

Nakonechnyi, A., Roberts, J., & **Allen, R.** (2019) *cITe and facilitating virtual student exchanges.* Invited poster presentation at CultureShake, Karlsruhe University of Education, Karlsruhe, Germany.

Saeed, F. & **Allen, R.** (2019). *Educating older patients about dialysis decisions: Drawing on an educational framework and clinical experience.* Poster presentation at International Technology Education, and Development Conference, Valencia, Spain.

Allen, R. (2019). *Using a participatory action research approach to teach English as a noSecond Language to Latin American immigrants.* Poster presentation at The Fifth Annual Diversity Matters Research Day at University of Cincinnati, Cincinnati, Ohio.

Allen, R. (2018). *Using video and social media to promote persistence in Latin American learners of English in the United States: An Action Research Project.* Oral presentation and published paper at International Conference of Education, Research, and Innovation, Sevilla, Spain.

Allen, R. (2018). *Understanding needs and designing English as a Second Language learning support for international medical doctors.* Oral presentation and published paper at Edulearn, Palma de Mallorca, Spain.

Allen, R. (2018). *But how then should we teach pronunciation? A teacher action research study on creating a dialog with English as a Second Language students*

to support their intelligibility development. Oral presentation and published paper at Edulearn, Palma de Mallorca, Spain.

Nakonechnyi, A. & **Allen R**. (2018). *Using participatory action research to engage and retain students: It's the people that matter.* Oral symposium at Action Learning and Research Association World Conference, Norwich University, Vermont.

Allen, R., Sara, N., & Prather, L**.** (2018). *Navigating graduate school: A participatory action research project.* Poster presented at University of Cincinnati Action Research Symposium, Cincinnati, Ohio.

Allen, R. (2017). *English as a Second Language learning support to international medical graduates (IMGs) in graduate medical education (residency).* Poster presented at University of Cincinnati ProStem Poster Symposium, Cincinnati, Ohio.

Allen-Nakonechnaya, R. (2007). F*un and focused: Pronunciation software that ENABLES students to succeed.* Conference presentation at the 35th Annual TESL Ontario Conference, Toronto, Ontario.

Allen-Nakonechnaya, R. (2006). *Thunder or lightning: Addressing nonverbal communication.* Paper presented at the 2006 Graduate Student Conference, York University, Toronto, Ontario.

GRANTS AWARDED
Our research group has received over three million in funding; I have collaborated in/consulted on the writing of numerous other NIH and Federal Grants.

Erasmus (EU University Funding)   December 2023, $10,235

***Short term mobility grant** (in collaboration with Laurea University; they also received an approximately equal amount)*

Funds to facilitate short-term subsidized study trips to Helsinki, Finland for my students. Will receive Finnish group in fall 2024 as well. Have conducted projects on AI for business and applications development for refugees.

Role: Partner with European Grant Holder

Choose Ohio First Scholarship Program   Fall 2023-Spring 2028, $604,800

Mount St. Joseph University's Proposal for the Choose Ohio First STEM Scholarship Program

To fund STEM scholarships in our academic program to promote STEM in underrepresented Ohioan populations; students with scholarships work in our research lab.

Role: Principle Institutional Applicant

Choose Ohio First Scholarship Program   Fall 2022-Spring 2027, $1,340,640.00

Mount St. Joseph University's Proposal for the Choose Ohio First STEM Scholarship Program

To fund STEM scholarships in our academic program to promote STEM in underrepresented Ohioan populations; students with scholarships work in our research lab.

Role: Principle Institutional Applicant

Third Frontier Research Incentives Grant   04/2022-06/2026, $302,400

Reducing Infant Mortality for the Common Good: Enabling Expanded Resource Navigation

To expand the reach and capabilities of our previously developed resource navigation platforms to provide at-risk, expectant mothers with healthcare resources, prenatal education, and community support groups as a way to combat Ohio's alarming infant mortality rate.

Role: Principle Investigator

Choose Ohio First Scholarship Program   Fall 2021-Spring 2026, $859,950.00

Mount St. Joseph University's Proposal for the Choose Ohio First STEM Scholarship Program

To fund STEM scholarships in our academic program to promote STEM in underrepresented Ohioan populations; students with scholarships work in our research lab.

Role: Principle Institutional Applicant

Choose Ohio First Scholarship Program   Fall 2020-Spring 2025, $551,250.00

Choose Ohio First in Computer Science at MSJ

To fund STEM scholarships in our academic program to promote STEM in underrepresented Ohioan populations; students with scholarships work in our research lab.

Role: Principle Institutional Applicant

Third Frontier Research Incentives Grant   01/2020-06/2022 $309,890

Proposal for the Third Frontier Research Incentive for Research to Reduce Infant Mortality in Ohio

To develop web and mobile apps that can be used to provide at-risk, expectant mothers with healthcare resources, prenatal education, and community support groups as a way to combat Ohio's alarming infant mortality rate.

Role: Principle Investigator

ACADEMIC AWARDS AND SCHOLARSHIPS

- Karlsruhe University of Education, Travel Stipend (2019)
- Travel Costs Grant, University of Cincinnati (2017)

- Research Costs Grant, York University (2006)
- York University Graduate School Scholarship (2005)
- Study Abroad Grant to study in Querétaro, Mexico (2004)
- Dean's List: All semesters of undergraduate study
- Academic Merit Scholarship at University of Cincinnati (2003)

COMMERCIAL PARTNERSHIPS AND ENTREPRENEURSHIP

Consultant to the develop of [Moz Light](), a light projector game system for elderly persons living with dementia and persons with developmental delays.

COMMITTEE MEMBERSHIPS/SERVICE

- Edulearn (International Conference) 2019-current Advisory Board, Palma de Mallorca, Spain.
- Peer Reviewer in *Health Education Journal, System, Kidney360 and TESOL journal.*
- AI Committee, Mount St. Joseph University
- Prison Education Committee, Mount St. Joseph University
- AI Learning Community Leader, Mount St. Joseph University

FOREIGN LANGUAGES

Ability to communicate with cultural competence in a wide-variety of non-English speaking settings.

- English: Native language.
- Spanish: B2-C1 proficiency in business and academic functions. Currently, use Spanish regularly for business and research.
- Chinese [Mandarin]: Basic conversational skills.
- French: Reading and some listening comprehension
- Russian: B1/B2 Level, facilitate Eastern European IT outsourcing.
- Polish: Beginner and some listening comprehension.

TECHNOLOGY SKILLS

- **Natural Language Processing (NLP) core skills:** Data scraping, cleaning, and analysis using Python and related libraries such as NLTK, Matplotlib, Pandas, Scikit-Learn, and Selenium.
- **Project-management and app design.** Proven track record managing development. Proficient in team-building, outsourcing, and project management.
- **Competent presenter and teacher**. Able to enhance presentations and data analyses through the use of educational technology tools. Extensive teacher training experience.
- **Graphics design skills.** Proficient in Adobe Illustrator, Photoshop.
- **Blackboard and Moodle (Learning Management System)**. Have developed courses and syllabi in the context of higher education.
- **HTML and SEO**. Knowledge pertinent to website maintenance and development.
- **Knowledge of research methods and programs**. Well versed in qualitative, quantitative, and mixed research methods. Designed online survey instruments for research. Involved in corpus linguistics research; familiar with AntConc and other corpus linguistics tools and natural language processing (NLP) applications. Working knowledge of R, SPSS, and MaxQDA.

TECHNOLOGY CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

Madrid UPM Advanced Statistics and Data Mining Summer School. (2019). *Technical University of Madrid.*

HOBBIES AND INTERESTS

Cooking, Traveling, Graphics Design, Volunteering with Orphans and Refugees, and Learning and Using Foreign Languages