

Giselle Zeno

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Education

Ph.D., Computer Science

Purdue University

August 2023

Advisor: Jennifer Neville

Awards: GEM Fellowship, Frederick N. Andrews Fellowship

Thesis: *Dynamic Network Modeling from Temporal Motifs and Attributed Node Activity*

M.S., Computer Science

Purdue University

December 2021

B.S., Computer Science

University of Puerto Rico, Bayamón

August 2010

Awards: Magna Cum Laude, Honors Program scholarship, CS model student

Skills and Technologies

Programming Languages Frameworks

Python, C++, C, SQL, Java, Scala, R

PyTorch, PyTorch Geometric, Sentence-Transformers, HuggingFace Transformers, Scikit-learn, NLTK, Pandas, SciPy, NumPy, Matplotlib, Python iGraph and NetworkX

Tools

Neo4j, MySQL, Hadoop MapReduce, Jupyter Notebook, Docker, Git (Github)

Areas of Knowledge

Data Mining, Machine Learning, Natural Language Processing, Algorithms, Databases, Operating Systems

Natural Languages

English and Spanish

Selected Publications

Giselle Zeno and Jennifer Neville, “*DYANE: DYnamic Attributed Node roLEs Generative Model*”, To appear in Proceedings of the 32nd ACM International Conference on Information and Knowledge Management (CIKM '23): ACM, New York, NY, USA.

Giselle Zeno, Timothy La Fond, and Jennifer Neville, “*DYMOND: DYnamic MOTif-NoDes Network Generative Model*”, in Proceedings of the Web Conference 2021 (WWW '21): ACM, New York, NY, USA, 2021, p. 12.

Giselle Zeno, Timothy La Fond, and Jennifer Neville, “*Dynamic Network Modeling from Motif-Activity*”, in Companion Proceedings of the Web Conference 2020 (WWW '20 Companion), 2020, ISBN: 978-1-4503-7024-0

Giselle Zeno and Jennifer Neville, “*Investigating the Impact of Graph Structure and Attribute Correlation on Collective Classification Performance*”, 12th International Workshop on Mining and Learning with Graphs (MLG), 2016.

Work Experience

Purdue University

Graduate Research Assistant

August 2014 – July 2023

West Lafayette, IN

- Conducted extensive literature reviews to identify gaps and establish foundation for research projects.
- Developed research proposals, outlining objectives, methodologies, and expected outcomes.
- Successfully wrote and submitted grant proposals, securing funding for research projects and demonstrating excellent grant writing skills.
- Co-authored multiple papers published at esteemed data mining and machine learning conferences, and workshops.
- Demonstrated ability to work with minimal supervision, taking full ownership of research projects.

- Invited to present research findings and insights as speaker at conferences, effectively communicating complex concepts to diverse audiences.
- Offered constructive feedback on research presentations, helping colleagues enhance their communication and presentation skills.
- Actively engaged in research discussions, fostering an environment of intellectual exchange and interdisciplinary collaboration.

Lawrence Livermore National Laboratory

Graduate Research Internship

May 2018 – August 2018

Livermore, CA

- Project: *Models for motif evolution in dynamic graphs*
- Conducted extensive literature review and critically analyzed existing research to identify gaps and opportunities for further investigation.
- Independently formulated a novel model and methodology for the research project, demonstrating innovative thinking and problem-solving skills.
- Designed and executed experiments, collecting and analyzing data to validate the proposed model and methodology.
- Presented the research project to a diverse audience at the conclusion of the internship, effectively communicating complex concepts and research outcomes.

MIT Lincoln Laboratory

Graduate Research Internship

June 2015 – August 2015

Lexington, MA

- Project: *Collective inference on social networks with unbalanced class labels*
- Collaborated closely with a team of researchers to develop and refine the research methodology and experimental protocols.
- Implemented the research methodology, conducted experiments, and analyzed data to validate findings.
- Presented the research findings to colleagues and research professionals, effectively communicating the significance and impact of the work.
- Contributed to the development of a journal paper based on research findings.

Intel Corp.

Software Engineer Internship

April 2014 – August 2014

Santa Clara, CA

- Designed and implemented a robust Python package dedicated to mining CPU workload profiles, enabling accurate and insightful architectural studies.
- The project's impact includes providing crucial guidance for simulation tracing architecture and informed workload selection for architectural studies.
- Ensured code quality and reliability by implementing comprehensive unit tests and functional tests using Pytest and Unittest.
- Authored internal and external documentation for the project, utilizing Sphinx, ReST, and Markdown.
- Created informative wikis detailing the setup of Python virtual environments and the utilization of Sphinx for automated generation of documentation.

Evertec Inc.

Senior Programmer

January 2013 – May 2013

San Juan, PR

- Collaborated within dedicated team focusing on online banking system for Banco Popular de Puerto Rico.
- Successfully implemented and integrated new features and resolved software bugs.
- Utilized the Spring framework to develop web applications in Java.
- Executed database data migration tasks through the creation of PL/SQL scripts.
- Actively engaged in conducting thorough peer code reviews.

First BanCorp*Programmer Analyst**June 2011 – January 2013**San Juan, PR*

- Gathered client requirements and successfully designed and implemented mobile web applications using Java and the Spring framework.
- Actively participated in the front-end design process, ensuring optimal UI/UX.
- Took full ownership of feature design, implementation, and thorough testing.
- Notably, played a key role in the Mobile Banking web application, contributing to the implementation of payment and geo-location features, among other aspects.

PGES*Software Developer & Analyst**July 2009 – June 2011**San Juan, PR*

- Spearheaded the gathering and interpretation of client requirements, ensuring a comprehensive understanding of their needs.
- Designed and implemented project management web applications using Drupal and PHP.
- Provided user support throughout project lifecycles.
- Designed intuitive user interfaces and robust system architectures.
- Designed and implemented comprehensive systems to efficiently manage the life-cycle of complex construction projects, encompassing all phases from design to procurement, bid process, and project status management. Successfully supported projects exceeding \$250 million in value.

Google*Software Engineer Internship**May 2008 – August 2008**Mountain View, CA*

- Collaborated with the EngEDU team, responsible for providing education and training to Google's engineers, to enhance the internal training offerings.
- Translated loosely defined requirements into tangible solutions, showcasing strong problem-solving skills.
- Demonstrated effective teamwork and communication skills while working with other engineers and team members to achieve project goals.
- Led the analysis and selection of a new content management system (CMS); integrated Drupal CMS with Moodle LMS and LDAP single sign-on to serve all Google engineers.