

KEVIN ROS

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EDUCATION

University of Illinois, Urbana-Champaign

September 2020 - Present

Ph.D. Candidate in Computer Science

Vassar College (GPA: 3.83)

September 2016 - May 2020

B.A. in Computer Science

B.A. in Mathematics

AWARDS

Outstanding Teaching Assistant

2021

University of Illinois, Urbana-Champaign

Nominated by faculty for dedication and great work during a teaching assistantship.

Saburo Muroga Endowed Fellowship

2020

University of Illinois, Urbana-Champaign

Awarded to outstanding graduate students in computer science.

Honorable Mention, NSF GRFP

2020

University of Illinois, Urbana-Champaign

NSF Graduate Research Fellowship Program

Honorable Mention, 2020 Spring USRESP

2020

Vassar College

Undergraduate Statistics Research Project Competition.

Sigma Xi

2020

Vassar College

For research achievement and potential.

Departmental Honors

2020

Vassar College

Computer Science, Mathematics.

PUBLICATIONS

Ros, Kevin, Jong, Maxwell, Ho Chan, Chak, and Zhai, ChengXiang. "Generation of Student Questions for Inquiry-based Learning." In 15th International Natural Language Generation conference (INLG 2022). Association for Computational Linguistic, 2022. (To Appear)

Ros, Kevin, Carl Edwards, Heng Ji, and ChengXiang Zhai. "Team Skeletor at Touche 2021: Argument Retrieval and Visualization for Controversial Questions." In CLEF (Working Notes), pp. 2441-2454. 2021.

Naumov, Pavel, and Kevin Ros. "Strategic coalitions in stochastic games." *Journal of Logic and Computation* 31, no. 7 (2021): 1845-1867.

Naumov, Pavel, and Kevin Ros. "Comprehension and knowledge." In Proceedings of the AAAI Conference on Artificial Intelligence, vol. 35, no. 13, pp. 11622-11629. 2021.

Ros, Kevin, Olsson, Henrik, and Hu, Jingchen. "Two-Phase Data Synthesis for Income: An Application to the NHIS." In Privacy in Statistical Databases. 2020.

Naumov, Pavel, and Kevin Ros. "Strategic coalitions in systems with catastrophic failures." In Sixteenth International Conference on Principles of Knowledge Representation and Reasoning. 2018.

WORK EXPERIENCE

AI Software Developer Intern

May 2021 - August 2021

Trova AI, Inc.

Urbana, IL

Researched, developed, and implemented several information retrieval techniques for user-focused personal search with emphasis on latency and scalability. Explored techniques to re-rank and present personalized heterogeneous results (e.g., email, Slack, Jira).

RESEARCH EXPERIENCE

Research Assistant

August 2020 - Present

Advisor: Dr. ChengXiang Zhai, University of Illinois, Urbana-Champaign

Urbana, IL

Anticipating information needs without explicit queries.

Undergraduate Thesis

September 2019 - May 2020

Advisor: Dr. Nancy Ide, Vassar College

Poughkeepsie, NY

Topic: Using word embeddings from PubMed abstracts and literature-based discovery techniques to discover non-explicit relationships between mental illnesses and symptoms.

Undergraduate Research Assistant

January 2019 - August 2020

Vassar College

Poughkeepsie, NY

Worked with Dr. Nancy Ide and Keith Suderman to improve the document retrieval and ranking system for The Language Application Grid Question/Answer Service.

Independent Study

September 2017 - Present

Vassar College

Poughkeepsie, NY

Conducted research with Dr. Pavel Naumov to study soundness and completeness properties of multi-agent axiomatic systems with a probabilistic aspect.

REU Summer Research Program

May 2019 - September 2019

Vassar College, funded by NSF

Poughkeepsie, NY

Worked with Dr. Nancy Ide and Keith Suderman to optimize The Language Application (LAPPS) Grid Question/Answer service with RabbitMQ and Docker.

Independent Study

September 2018 - December 2018

Vassar College

Poughkeepsie, NY

Conducted research for Dr. Nancy Ide to extract information and trends from published geology research articles, specifically focusing on the relationships between mineral level and epochs.

TEACHING EXPERIENCE

TA, Advanced Information Retrieval*University of Illinois, Urbana-Champaign*

January 2022 - May 2022

Urbana, IL

Primarily responsible for organizing and monitoring of the course projects for 100 students. Helped students work through various topics in information retrieval.

TA, Text Information Systems*University of Illinois, Urbana-Champaign*

August 2021 - December 2021

Urbana, IL

Managed the infrastructure for assignment and course project submissions for over 500 students. Oversaw and guided students through the final course project process.

TA, Introduction to Data Science*Vassar College (Liberal Arts Collaborative for Digital Innovation)*

May 2019 - August 2019

Poughkeepsie, NY

Guided students through the foundations of data science while working closely with professors and other TAs to ensure that no student fell behind. Also aided in course material development, evaluation, and deployment.

EXTRACURRICULAR ACTIVITIES

Conference Reviewer

EMNLP, 2022 (Language Generation Track)

Vassar Men's Volleyball Team

September 2016 - May 2020

AVCA All-American, 2020

Team Captain, 2018 - 2020