

DAVID MCKOSKEY

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Education

University of Saint Thomas—Saint Paul, MN

Graduate Studies: 2014–2019

Doctor of Education in Leadership (2014 – 2019)

Dissertation Title: From Where I Stand: Women Struggling for Acceptance in I.T. Careers.

University of Minnesota—Minneapolis, MN

Graduate Studies

Master of Arts in Linguistics (2004–2007)

Master of Science in Computer Science (1997–2000)

Doctor of Philosophy minor in Cognitive Science (1997–2000)

Graduate Minor in Cognitive Science (1997–2000)

University of Saint Thomas—Saint Paul, MN

Undergraduate Studies: 1988–1993

Bachelor of Arts majors in Mathematics, Psychology and French

Bachelor of Arts minors in Philosophy and Computer Science

Teaching Experience

St. Catherine University—St. Paul, MN

Adjunct Faculty: February 2010 – Present

Served as adjunct faculty in undergraduate Computer Science (Math / Physics Department) since September 2010 and in graduate Library Science since February 2012. All courses have a heavily applied flavor, emphasizing projects, assignments and labs. Students are dominantly majors in disciplines other than Computer Science, and most have no prior Computer Science instruction.

CSCI 1040: Introduction to Computers for Multimedia and Communications. This course introduces students to the basics of Computer Science through the need to disseminate information. The course centers on web site design and construction, printed and animated media.

CSCI 1050: Introduction to Computers for Research and Business. This course continues the work started in CSCI 1040, this time collecting instead of disseminating information. Students learn how data collection starts with simple spreadsheets and scales to a relational database.

CSCI 1060: Introduction to Computers. This course provides a broad introduction to computer science and engineering, with an emphasis on lab work and projects. This course includes the content presented in CSCI 1040 and CSCI 1050.

CSCI 1110: Algorithms and Computer Programming I. This course introduces students to the software development lifecycle and the essentials of software engineering practices. Students learn HTML, JavaScript, and Java in sequence, ending with a final project presented to faculty.

ISCI 1000: Information, Technology, and Digital Society

ISCI 1200: Website Design and Information Architecture

LIS 7510: Database Systems. Wrote and taught this graduate course on RDBMS systems, including database design, normalization, implementation, and Structured Query Language (SQL). Students learn Microsoft Excel, Microsoft Access, and MySQL, ending with a final project presented to the class.

LIS 7530: Internet Fundamentals and Design. Wrote and taught this graduate course on website development, including wireframe design, implementation, and deployment. Students learn HTML and CSS, ending with a final project presented to the class.

LIS 7963: Advanced Databases. Wrote and taught this graduate course on dynamic web site design and implementation. Students learn web site design, MySQL and PHP, ending with a final project presented to the class.

LIS 6952: Independent Study. Advised Carrie Gawne, who presented at the Tenth Annual MLIS Summit (please see Presentations).

LIS 8010: Special Studies in Librarianship. Advised Kari Larson on a project on data exploration and visualization. Technologies included Tableau and Microsoft Office.

Macalester College—St. Paul, MN

Guest Faculty: Spring Semester 2001

Comp 124: Object-Oriented Programming and Data Structures. Oriented toward second semester freshmen and sophomores who had already passed Comp 123: Core Concepts in Computer Science. Students were late teens, only slightly more diverse than average Minnesota population, and approximately 70% / 30% gender split (male / female). Classes consisted of an hour of lecture per day, independent lab activities, independent assignments, and exams. Programming assignments (labs and out-of-class assignments) were discussed after they were graded and handed back.

Metropolitan State University—St. Paul, MN

Community Faculty: Fall Semester 2000, Spring Semester 2001

ICS 140: Introduction to Java. This is the first course Metropolitan State student take in Computer Science. Students were very diverse, including recent immigrants, older / returning / second career students, students with mental health considerations, and students transitioning from sobriety programs or group home care. Classes included an hour of lecture and an an hour and a half of guided lab. Labs and assignments were programming activities and solutions were discussed after they were graded and handed back.

Teaching Interests

Relational Database System Design and Implementation

Comparative Epistemology

Linguistic Theory and the Syntax / Semantics Interface

Publications

David McKoskey *A Comparison of Two Techniques for Resolving Demonstrative Anaphora*, Master of Arts Thesis in Linguistics, 2007

David McKoskey and Daniel Boley, *Error Analysis of Automatic Speech Recognition Using Principle Direction Divisive Partitioning* in Proceedings of the Eleventh European Conference on Machine Learning (ECML), 2000

Shana Watters, Bridget McInnes, **David McKoskey**, Tim Miller, Daniel Boley, Maria Gini, William Schuler, Anya Polukeyeva, Jeanette Gundel, Sergey Pakhomov, Guergana Savova, *Using Volunteers to Annotate Biomedical Corpora for Anaphora Resolution*, poster presentation at Knowledge Collection from Volunteer Contributors (KCVC05), a Spring symposium of the AAAI, 2005

Presentations

Carrie E. Gawne and David McKoskey, "Using Machine Learning to Detect Predatory Open Access Publications" Presented at the Student Poster Fair. Second place award. Tenth Annual MLIS Summit, April 24, 2017

"Making Google Work for You", a tutorial on Google Sites and Google Forms for faculty, staff, and students. Attendees created their own web site, enhanced with basic HTML, CSS, and a form which connected a web site survey to a spreadsheet. Presented at the 2011 Teaching Learning Network (TLN) Conference, St. Catherine University, January 25, 2011

Presented results from *Error Analysis of Automatic Speech Recognition Using Principle Direction Divisive Partitioning* at the Eleventh European Conference on Machine Learning (ECML), 2000

Research Interests

Cognitive Science: comparative epistemology and the bases of knowledge.

Linguistics: Syntax, Semantics and their common interface.

Academic Accomplishments

Contributed MySQL programming examples to accompany *Spatial Databases: A Tour* by Shashi Shekhar and Sanjay Chawla (Prentice Hall, 2003, ISBN 013-017480-7). These examples illustrated database configuration and disk allocation, transactions and concurrency, query optimization, data aggregation, and basic data warehouse analysis. These examples were written for MySQL and PostgreSQL databases, to accompany the Oracle examples written by Shashi Shekhar.

Guest commentator on Minnesota Public Radio's Grammar Grater podcast, Episode 27: "An Interesting Compromise". Posted Thursday January 3, 2008

Professional Memberships

Association for Computing Machinery (ACM)

Linguistics Society of America (LSA)

Cognitive Science Society (CSS)

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Community Outreach

St. Mary's Together Encounter Christ (TEC): Conducted retreats, serving as Spiritual Director or musician (or both) on over ten retreats. Served on TEC leadership board and participated in meetings to review and revise retreat manual.

Epiphany Catholic Church: Youth minister and Religious Education Coordinator. Wrote and revised religious education curriculum for adolescent and teen students. Conducted orientation for new volunteer educators. Organized and sponsored youth group activities.

References

Professor Yvonne Ng, Associate Professor of Computer Science, St. Catherine University. She can be reached at ysng@stkate.edu or 651-690-6859

Professor William McDonough, Associate Professor of Theology, St. Catherine University. He can be reached at wcmcdonough@stkate.edu or 651-690-6072

Eric Dela Cruz, Systems Specialist, Office for International Studies, University of St. Thomas. He can be reached at etdelacruz@stthomas.edu or 651-962-6455