

Pata Rujirawat

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Professional Summary

Innovative and dedicated educator with 11 years of experience as a faculty lecturer at Utah State University, specializing in curriculum development, instructional design, and leveraging technology to enhance student learning. Expertise in designing accessible, inclusive, and engaging learning experiences for diverse student populations in face-to-face and online environments. Adept at managing complex projects, collaborating with cross-functional teams, and utilizing cutting-edge educational technologies to drive student success. Passionate about creating equitable educational opportunities and fostering a culture of continuous improvement.

Key Skills

- Instructional Design & Curriculum Development for both introductory mathematics and introductory statistics.
- Project Management & Stakeholder Collaboration
- Universal Design for Learning (UDL)
- Evidence-based Teaching (EBT)
- Open Educational Resources (OER) Development
- Faculty Training & Professional Development
- Technology Integration & Learning Platforms (Canvas, Atomic Assessments, Zoom, GitHub, Overleaf, Microsoft Team, Proctorio, MyOpenMath, Knewton Alta, MyLab, WebAssign, Aleks, StatsPortal/LaunchPad (moving to Achieve))
- Educational Technologies (Markdown, LaTeX, Quarto, Python, R, Jupyter Notebook, Git, Desmos, Geogebra, WolframAlpha, Qualtrics Microsoft OneNote, Microsoft PowerPoint, Microsoft Excel, Microsoft OneDrive, Box, iClicker, Top Hat, Camtasia, Adobe Captivate, Adobe Premiere)

Professional Experience

Lecturer, Department of Mathematics and Statistics

08/2012-06/2023

Utah State University

- **Teaching Assignments:** College Algebra, Trigonometry, Calculus Techniques, Statistical Methods, Business Statistics, and Statistics for Scientists.
- **Instructional Design and Curriculum Development:** Designed and developed both online courses and face-to-face (F2F) courses, including both large-lecture and small-lecture settings. Integrated UDL principles to ensure accessibility and inclusivity for all students.
- **Open Educational Resources (OER):** Created and implemented OER materials for *College Algebra* and *Calculus Techniques*, reducing student costs while maintaining high-quality resources. Adapted assignments, quizzes, and class handouts under Creative Commons licenses.
- **Technology Integration:** Expertise in Canvas LMS, implementing features like external app integrations (MyOpenMath, Proctorio, Desmos) and embedding multimedia resources to create engaging and interactive learning environments, which in turn enhance EBT and UDL practices.
- **Large F2F Course Management:** Oversaw consistency across multiple recitation sessions for large lecture courses (100-250 students) by developing detailed rubrics, handouts, and instructional guides for graduate teaching assistants, together with observations and collaborations.
- **Innovative Assessments:** Implemented low-stakes formative and summative assessments. Formative assessment with classroom polls using tools like iClicker and Top Hat.
- **Transparency:** Provided clear course objectives, learning outcomes and rubrics aligned with the outcomes. Clearly defined tasks and expectations in each assignment.

Selected Achievements

- Pioneered the adoption of open source textbooks in the department, saving students significant costs.
- Developed numerous course materials adapted from OER, creating reproducible materials for faculty use.
- Practiced evidence-based teaching by aligning outcomes to rubrics via Canvas.
- Introduced innovative assessment methods, including variety of technologies for alternative assessments (e.g. Atomic assessment via Canvas, Flipgrid, MyOpenMath, iClicker, TopHat etc.), fostering deeper student engagement and reflection.
- Received a small grant from College of Science at USU to advance the Open Educational Resource initiative for College Algebra.

Community Engagement & Service

- Started the departmental chapter of the Association for Women in Mathematics, fostering inclusivity and mentorship in mathematical sciences.
- Organized department teaching showcases to share pedagogical innovations, technological advancements and best practices.
- Peer mentor for faculty, providing guidance on instructional technologies and innovative course design.
- Participated in Math/Stat Education Group to explore innovative teaching practices.
- Provided mentorship and supervision for graduate teaching assistants in large lecture courses.
- Assisted refugees and immigrants with essential tasks such as scheduling appointments, paying bills, filling out applications, and navigating medical systems, fostering strong community ties and cultural understanding.
- Volunteer cross-country ski coach assistant for Special Olympics.

Professional Development

- Workshop: Scientific Teaching (Evidence-Based Teaching), Olympia, WA (2018)
- Utah Council of Teachers of Mathematics Conference, Draper, UT (2018)
- Webinar: Global STEM Education Program, University of Oregon (2020)
- Workshops and Professional Development Pathway by Center for Instructional Design and Innovation, USU

Education

Master of Science in Mathematics and Statistics

Minnesota State University, Mankato, 2008

Master of Science in Economics

Utah State University, 2002