

Department of Mathematics
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Deborah A. Kent, Ph.D.

Work Experience

Drake University, Des Moines, Iowa

Associate Professor of Mathematics (2015—present): Taught 3 courses per semester. Awarded top expository paper published in mathematics in 2016. Chaired department search committee. Restructured senior project protocols. Advised 40 students per semester. Facilitated student access to Matlab software. Developed applied linear algebra demonstrations. TAI Academic Innovation and Leadership Award. Mentored 24 students into research experiences.

Assistant Professor of Mathematics (2012—2015): Earned tenure. Envisioned, planned, coordinated, implemented, and led a travel seminar for 17 students. Introduced poster presentations. Accepted by journal with <5% acceptance rate.

Simon Fraser University, British Columbia, Canada

Adjunct Faculty of Mathematics (2013—present): Co-authored Game Theory textbook. Joint projects with 4 SFU faculty. Collaboration on numerical computing curriculum development. Grad student mentorship.

Post-Doctoral Fellow (2005—2007): Taught large (350+) class calculus. Managed a team of teaching assistants. Supervised undergraduate research. Conducted independent and collaborative research. Developed international scholarly network. Highschool student outreach.

Hillsdale College, Hillsdale, Michigan

Assistant Professor of Mathematics (2007—2012) Taught 3-4 courses per semester of introductory and advanced undergraduate courses. Prepared, delivered, and assessed 14 distinct courses. Developed sophomore and senior seminar curriculum. Engaged in academic advising. Introduced student poster sessions, reorganized calculus curriculum, and installed LaTeX software for students. Developed Summer Science Camp curriculum. Hired faculty in Mathematics and German. Published in an invitation-only journal.

University of Virginia, Charlottesville, Virginia

Graduate Instructor, Department of Mathematics, (2000—2005)

Instructor of record for calculus, differential equations, and financial mathematics. Coded problems for WebWork homework bank.

Mathematics Tutor, Department of Academic Affairs—Athletics, (2001—2004)

Negotiated annual pay raises for grad student employees.

Selected Grants and Awards

Professeur invitée, Université de Lorraine, France (2018); Technology Association of Iowa Academic Innovation and Leadership (2017); MAA Halmos-Ford (2017); Visiting Scholar, University of Maribor, Slovenia (2015); State Historical Society of Iowa Research (2014-2015); Drake University Center for the Humanities (2014-2015); Faculty Development (2013-2016); Principal Financial International Travel Seminar Development (2012-2013); Massachusetts Historical Society Mellon Fellowship (2008-2009); MAA Project NExT Fellow (2007- 2008); American Philosophical Society Franklin Grant (2007); University of Virginia; GAANN Grant (2001–2005), Huskey Travel Award (2002), Floyd Fellowship (2000-2001); Washington State Scholar (1996–1999).

Education

Doctor of Philosophy, Mathematics, University of Virginia (2005)

Area of Specialization: History of Mathematics

Dissertation: “Benjamin Peirce and the Promotion of Higher Mathematics in America”

Master of Science, Mathematics, University of Virginia (2003)

Bachelor of Arts, English, German, and Mathematics, Hillsdale College (2000)

Activities and Memberships

Organizer: Special session for History of Mathematics, AMS/MAA Joint Mathematics Meetings (2009—2016); Project NExT Early Career Grant Writing Panel (2008); History and Philosophy of Mathematics session, Canadian Mathematical Society (2007); ICHM co-sponsored session, History of Science Society (2007).

Editor: *Historia Mathematica*, Reviews of books in English (2010-2016).

External Reviewer: Young Mathematicians’ Conference, *Historia Mathematica*, *The American Mathematical Monthly*, *College Mathematics Journal*, Springer-Verlag, Addison-Wesley

Additional Training: Reacting To The Past Summer Institute, Bard College (2015): Museum Studies Program, University of Michigan (2009): Teaching Mathematics for Understanding, Pacific Institute for the Mathematical Sciences (2006): Speaking to be Heard; Developing Effective Voice and Communication Skills, SFU (2006).

Memberships: American Mathematical Society, Mathematical Association of America, British Society for the History of Mathematics, Canadian Society for the History and Philosophy of Mathematics, History of Science Society, Association of Women Mathematicians

Invited Conference Presentations

National: AMS/MAA Joint Mathematics Meetings (2016, 2011, 2005—2008); Mathematical Association of America (2015, 2008); American Mathematical Society (2013, 2008, 2006, 2005); American Astronomical Society (2011); History of Science Society (2010, 2008); Columbia History of Science Group (2006); Conference on Exemplary Teaching (2006).

International: Royal Society London (2015); Royal Swedish Academy of Sciences (2015); London Mathematical Society (2014); International Congress of History of Science, Technology, and Medicine (2013, 2009); Fondation des Treilles (2012); Institut de Mathematiques de Luminy (2012); l’Institut Henri Poincaré (2011); Canadian Mathematical Society (2011, 2010, 2008, 2007, 2006); International Conference on the History of Modern Mathematics (2010); Institut de Mathematiques de Luminy (2009); Insitut de Mathmatiques de Luminy (2007); Mathematisches Forschungsinstitut Oberwolfach (2005); British Society for the History of Mathematics (2004).

Notable Publications

Book • *Game Theory: A Playful Introduction* (with M. DeVos), American Mathematical Society, January 2017.

Articles • “A Geometric Solution of a Cubic from Omar Khayyam . . . in which Coloured Diagrams are Used Instead of Letters for the Greater Ease of Learners” (with D. Muraki), *The American Mathematical Monthly*, February 2016.

• “A Mobilized Community: Mathematics in the U.S. during the First World War” (with D. Fenster and T. Archibald), in *The War of Guns and Mathematics: Mathematical Practices and Communities in France and Its Western Allies around World War I*, ed. C. Goldstein and D. Aubin, American Mathematical Society, October 2014.

• “The curious aftermath of Neptune’s discovery,” *Physics Today*, December 2011, 46-51.