CURRICULUM VITAE
Christopher Dale Goff

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CURRENT POSITION

- (starting fall 2014) Half-time (50%) appointment as Assistant Provost for Diversity
- Professor, University of the Pacific, 2015-present
- Associate Professor, 2007-2015, & Assistant Professor, 2002-2007

EMPLOYMENT HISTORY

- Teaching Postdoctoral Fellow, University of Arizona, 1999-2002
  The Teaching Postdoctorate is a unique three-year position stressing scholarly activity pertaining to teaching or mathematics instruction. It provides comprehensive professional training for a position that demands excellence in teaching.

EDUCATION

- Ph.D., Mathematics, UCSC, 1999
  Dissertation: Isomorphic Fusion Algebras of Twisted Quantum Doubles of Finite Groups
  Advisor: Geoffrey Mason
- M.A., Mathematics, UCSC, 1995
- B.S., Physics, University of Texas, Austin, 1993
- B.A., Plan II, UT, 1993
  The Plan II Program is a well-respected, highly selective honors program that grants a general Liberal Arts degree. Senior Thesis: An Analysis of Samuel Barber's *Hermit Songs*

AWARDS/HONOR SOCIETIES

- Charter Member of Pi Mu Epsilon, California Sigma at Pacific, 2011
- Judith Chambers Excellence in Student Life Award, 2010
- Eric Dingler LGBTQIA Mentor Award, 2010
- Member of Phi Beta Kappa, Alpha of Texas, since Fall 1989

SELECTED COURSES TAUGHT AT PACIFIC

- Pacific/Mentor Seminar I (General Education)
- Creativity and Knowledge (Honors Program)
- Topics in the History of Mathematics
- Linear Algebra
- Abstract Algebra I and II
- Modern Geometries
- Introduction to Abstract Mathematics
- Calculus I, II, and III, Elements of Calculus, Calculus Companion
- several Independent Studies (computer graphics, mathematical physics, representation theory of finite groups, representation theory of Lie algebras, fusion algebras, etc.)

UNIVERSITY, REGIONAL, AND NATIONAL SERVICE

- Program Chair of the Golden Section of the MAA (2013-16)
  - Chair-Elect in 2013, Chair in 2014, Program Chair in 2015 (ends February 2016)
- Dolciani Mathematical Expositions Editorial Board (2012-2015)
- At-Large Member for Inclusion (2015-present), MAA Council on the Profession
- Departmental Liaison to the MAA (since 2008)
- Special Consultant, Mathematics, American Heritage Dictionary, 5th Edition, HMH
- Committees and Boards
  - Chair of Academic Council, 2011-12 (2010-11 Chair-Elect, and 2012-13 as Past Chair)
  - Department Search Committees, 2003, 2005, 2009, 2013
  - Writing in the Disciplines Committee, 2009-2010
  - Mentor (now Pacific Seminar) I Planning Committee, 2005-2007
  - Gender Studies Board, 2002-present
  - Phi Beta Kappa committee (Vice President, 2010-2013, and Chair, Members in Course Subcommittee, 2006-present)

PROFESSIONAL MEMBERSHIPS

- MAA (Mathematical Association of America) member, 1999-present
- AWM (Association for Women in Mathematics) member, 2001-present
- NADOHE (National Organization for Diversity Officers in Higher Education) member, 2015
- PCA (Popular Culture Association), member, 2006
- ASA (American Studies Association) member, 2004

SELECTED GRANT APPLICATIONS

- Principal Investigator, California Math-Science Partnership ($1.8 million), 2015
  "Math with Added Science, Technology, and Engineering for Relevance" (MASTER) will work with K-8 teachers in Lincoln Unified to provide professional development in summers and throughout the school year. Status: **funded**. The first summer workshop took place July 2015.
- Principal Investigator, National Science Foundation Math and Science Partnership ($7.6 million), 2012
  "Making Algebra Elementary" proposed to work with grade 3-6 teachers in Lincoln and Stockton school districts to improve teacher pedagogy surrounding the Common Core Mathematical Practice Standards. Status: **not funded, but made it to the final round**.
- Regional Undergraduate Math Conferences grant, via MAA and NSF ($1900), 2011
  This grant provided student travel funds and food for the Northern California Undergraduate Mathematics Conference, held at Pacific on 16 April 2011. Status: **funded**.
- Principal Investigator, US Department of Education Mathematics and Science Education Grant ($2.2 million), 2010
  "Math Camp: A New Paradigm for Intervention" proposed studying the effectiveness of the Math Camp intervention model in grades 5-6 for the learning of fractions, ratios and proportions. Status: **not funded**.
- Principal Investigator, National Science Foundation Math and Science Partnership ($11.8 million), 2009
  "Access to Algebra and Beyond through Camp, Coaching, and Collaboration – ABCs" proposes to increase K-Algebra I student achievement in, access to, and preparation for advanced mathematics courses over a five year period through a combination of professional development activities for teachers and new intervention strategies for students. Status: **not funded**.

≥ Principal Investigator, US Department of Education Mathematics and Science Education Grant ($1.9 million), 2009
  "Math Camp: A New Paradigm for Intervention" proposes studying the effectiveness of the Math Camp intervention model in grades 4-6 for the learning of fractions. Status: **not funded**.
≥ UOP Eberhardt Summer Research Fellowship ($3500), Summer 2013, 2008 and 2003
≥ UOP Eberhardt Priorities Grant ($3500), Fall 2007
  G. Gerhard (History/Gender Studies) and I co-authored this grant to support Pacific's March 2008 Gender and Science Conference, hosted by Gender Studies.

SELECTED PUBLICATIONS

Peer-reviewed

≥ Animating popular mathematics: a review of "The Simpsons and their Mathematical Secrets" by Simon Singh. *AMS Notices*, January 2015.
≥ How to Improve a Math History Assignment, *Loci: Convergence* (July 2014) – Available online at: http://www.maa.org/publications/periodicals/convergence/how-to-improve-a-math-history-assignment .
≥ English translation (from Latin) of "On finding three or more numbers, the sum of which is a square, while the sum of the squares is a fourth power," by L. Euler. Originally published (posth.) in *Mémoires de l'académie des sciences de St.-Petersbourg* 9, 1824, pp. 3-13. E763 in the Eneström index. Translation available online at the Euler Archive, April 2014.
≥ English translation (from Latin) of "On a notable advancement of Diophantine analysis," by L. Euler. Originally published (posth.) in *Mémoires de l'académie des sciences de St.-Petersbourg* 11, 1830, pp. 1-11. E772 in the Eneström index. Translation available online at the Euler Archive, May 2014.
≥ Fusion rules for abelian extensions of Hopf algebras, *Algebra and Number Theory* **6** (2), 2012, pp. 327-339.
≥ Mathematics and Television. Edwards, Leigh H., Goff, Christopher D., Greenwald, Sarah J., and Thomley, Jill E. (2011). In Sarah J. Greenwald & Jill E. Thomley (Eds.) *Encyclopedia of Mathematics and Society*. USA: Salem Press.
≥ Recursive Functions. Goff, Christopher D. (2011). In Sarah J. Greenwald & Jill E. Thomley (Eds.) *Encyclopedia of Mathematics and Society*. USA: Salem Press.
≥ Generalized twisted quantum doubles and the McKay correspondence, with Geoff Mason, *Journal of Algebra*, 324 (11), Dec 1, 2010, pp. 3007-3016
≥ Fusion algebras for vertex operator algebras and finite groups, Vertex Operator Algebras and Related Areas, *AMS Contemporary Mathematics* 497, 2009, pp. 79-83.
≥ On the gauge equivalence of twisted quantum doubles of elementary abelian and extra-special 2-groups, with G. Mason and S.-H. Ng, *J. Alg.* **312** (2), 2007, pp. 849-875.
≥ Contributing Faculty Member, *Pacific Seminar I: What is a Good Society?*, Fall 2006 and 2007.
≥ Co-editor, special issue of *PRIMUS (Problems, Resources, and Issues in Mathematics Undergraduate Studies)* devoted to Mathematics and Popular Culture, **17** (1), April 2007.
≥ To Boldly Go: Current Work and Future Directions in Mathematics and Popular Culture, with Sarah J. Greenwald, *PRIMUS*, **17** (1), April 2007, pp. 1-7.
≥ An explicit fusion algebra isomorphism for twisted quantum doubles of finite groups, *J. Alg*. **283**, 2005, pp. 738-751.
≥ A family of isomorphic fusion algebras of twisted quantum doubles of finite groups, *J. Alg.* **259**, 2003, pp. 494-511.
≥ Benefits of a Comprehensive Undergraduate Teaching Assistant Program, with B. Lahme, *PRIMUS (Problems, Resources, and Issues in Mathematics Undergraduate Studies)*, v. **XIII** #1, March 2003, pp. 75-84.
≥ Using Composition Techniques to Improve Classroom Instruction and Students' Understanding of Proof, *PRIMUS*, v. **XII** #6, September 2002, pp. 239-246.

Self-published

≥   Common Core State Standards for High School Math: Algebra. What Every Math Teacher
     Should Know. Createspace.com, 2013.
≥   Common Core State Standards for High School Math: Geometry. What Every Math Teacher
     Should Know. Createspace.com, 2013.
≥   CSET Mathematics Study Guide I: Algebra and Number Theory. Createspace.com.
≥   CSET Mathematics Study Guide II: Geometry; Probability and Statistics. Createspace.com.
≥   CSET Mathematics Study Guide III: Calculus and History of Mathematics. Createspace.com.

SELECTED PRESENTATIONS

≥   Alan Turing: The Man Behind the Machine
         Math Club and PRIDE Alliance, Spring 2015
         Introduction to Gender Studies, Fall 2015
         Engineering Ethics, Spring 2016
≥   Fusion Algebras & Accidental Trigonometry
         Sacramento State University Math Colloquium, November 2015
         Santa Clara University Mathematics Colloquium, November 2009
≥   Diophantine Geometry, Eulerian Number Theory, and Undergraduates
         (invited) California Mathematics Council Community Colleges, Lake Tahoe, April 2015
         (invited) Sacramento Valley Community College Math Conference, Sac City College, March 2013
         MAA session on history of geometry and its uses in the classroom, San Diego, CA, January 2013
≥   Dynkin Diagrams and Fusion Algebras
         (invited) University of Southern California Algebra Colloquium, Los Angeles, November 2013
≥   An isomorphism between the fusion algebras of V_{L^+} and type $D_{(1)}$ level 2
         AMS CP Session, Joint Meetings, Washington, DC, January 2009
≥   (keynote) Does Spelling Count? Reflections on Writing in the Mathematics Classroom
         Sacramento Valley Community College Mathematics Conference, March 2007
≥   Selected talks and panels relating Mathematics and Popular Culture
         o   The Usual Suspects?, State of the Arts Humanities Event, Pacific, May 2008
         o   A Conversation with Mathematical Hollywood Writers and Mathematics Faculty,
              (moderator) MAA Panel, Joint Meetings, San Diego, CA, 2008
         o   Movie Math: Mathematical Talent = Mental Illness, MAA CP Session, co-organizer and
              presenter, Mathematics and Popular Culture, Mathfest, Knoxville, TN, August 2006
         o   Mathematics and Popular Culture (with Sarah J. Greenwald), MAA CP Session co-
              organizer and presenter, Joint Meetings, San Antonio, TX, January 2006
         o   A Beautiful Mind, PCA/ACA Panel, Atlanta, GA, April 2006
         o   Mathematicians in the Movies, ASA Panel, Atlanta, GA, November, 2004
≥   Is Science Sexy? – a Panel on Gender and Science
         Co-organizer (with E. Sparks) and Moderator, November 2003
≥   Cultural Authority and New Interdisciplinarities, Ethnomathematics
         Panelist, American Studies Association conference, Washington, DC, November 2001

PROFESSIONAL CONSULTING

≥   Houghton Mifflin Company
         Technical consulting for mathematical definitions and artwork, American Heritage Dictionary

PERSONAL INTERESTS

≥   Baritone with Sacramento Master Singers (Joined in 2005)
≥   Yoga