Google 76 9th Ave., Fourth Floor New York NY 10011 Phone: 917-596-6881 Email: janak@janak.org http://www.janak.org/

Employment

- Software engineer in Developer Infrastructure, Google, Inc., October 2013-present. Working on Build team, focusing on efficient persistent graph construction and modification.
- Post-doctoral researcher in mathematics, U. of Lisbon, with Prof. Mário Edmundo, 2010-2012.
- Lecturer in mathematics, U. of California, Berkeley, Summer 2011. Led 35-student calculus course.
- Post-doctoral researcher in mathematics, U. of Lyon I, with Prof. Itaï Ben Yaacov, 2008-2010.
- Software engineering intern, Google, Inc., Summer 2007. Worked on Build team: developed tools to aid efficient use of code and libraries, and heuristics to partially order libraries.
- Graduate Student Instructor, U. of California, Berkeley, 2002-2008. Led sections in courses ranging from calculus to advanced linear algebra to mathematics for secondary school teachers. Received an Outstanding Graduate Student Instructor Award in 2007, and an overall average student evaluation of > 6 out of 7.
- Contractor, created online database accounting system for Berkeley Student Cooperative, 2006. System currently has over 1000 users. Conceived concept of system and implementation from scratch.

Education, Fellowships

- Ph.D. Mathematics, University of California, Berkeley, December 2008. Dissertation: "Types in O-Minimal Theories." Supervisor: Prof. Thomas Scanlon.
- Stride-Rite Public Service Fellowship: mathematics teacher, Olcott Memorial High School, India, designed and taught curriculum to first-generation-literate middle-school students, 2001-2002.
- A.B. Mathematics, Harvard University, 2001, Cum Laude.

Papers

- Ramakrishnan, J. "Definable linear orders definably embed into lexicographic orders in o-minimal structures," Proceedings of the American Mathematical Society, to appear, 2013. arXiv:1003.5400.
- Ramakrishnan, J. "Functions continuous on curves in o-minimal structures," Annals of Pure and Applied Logic, to appear, 2013. arXiv:0902.4612.
- Ramakrishnan, J. "Uniform bounds on growth in o-minimal structures," Mathematical Logic Quarterly, 56(4): 406-408, 2010.
- Ramakrishnan, J. "Maximal small extensions of o-minimal structures," Mathematical Logic Quarterly, 56(5): 470-474, 2010.
- Eleftheriou, P., Peterzil, K., Ramakrishnan, J. "Interpretable groups are definable," submitted, arXiv:1110.6581, 2011.
- Ramakrishnan, R., Ramakrishnan, J. "Utilizing mass measurements in tracer studies A systematic approach to efficient modeling," Metabolism, 57: 1078-1087, 2010.
- Ramakrishnan, R., Ramakrishnan, J. "A state space transformation can yield identifiable models

for tracer kinetic studies with enrichment data," Bulletin of Mathematical Biology, 72(8):2019-2046, 2010.

• Ramakrishnan, J. "Types in o-minimal theories," doctoral dissertation, 2008.

Selected Talks

- Invited talk at City University of New York Logic Workshop, "Classifying definable linear and partial orders in tame ordered structures," April 2011.
- Contributed talk at Conference on Mathematical Logic and Set Theory, Satellite Conference of the International Congress of Mathematicians 2010, "Definable linear orders definably embed into lexicographic orders in o-minimal structures," August 2010.
- Invited talk at Association for Symbolic Logic 2009 Annual Meeting Special Session on Model Theory at Notre Dame University, "Types in o-minimal theories," May 2009.
- Invited talk at BIRS Meeting: Stability Theoretic Methods in Unstable Theories, "Classifying *n*-types in o-minimal theories," February 2009.
- Invited talk at American Mathematical Society Sectional Meeting Special Session on Model Theory and its Applications at Wesleyan University, "Scale, decreasing types, and extending functions continuously in o-minimal theories," October 2008.
- Invited talk at "Second Workshop on Model Theory: Dependent Theories," at Universidad de los Andes, "Type classification in o-minimal theories," March 2008.

Teaching Experience at University of California, Berkeley

- Outstanding Graduate Student Instructor Award, University of California, Berkeley, 2007.
- Lecturer, calculus (Math 1B), Summer 2011.
- Primary instructor, class on pedagogy, classroom techniques for new Graduate Student Instructors (G.S.I.'s) (Math 300), Spring 2005.
- G.S.I., mathematics of the secondary school curriculum: rigorous math and teaching methods for future high school math teachers (Math 151), Spring 2008.
- Classroom observer of and consultant for new G.S.I.s, on classroom techniques and teaching methods, Fall 2003, Fall 2004, Fall 2006.
- G.S.I., upper division linear algebra (Math 110) Spring & Fall 2007, honors linear algebra and differential equations (Math H54) Fall 2005, calculus (Math 1B) Spring 2003, Spring 2004.
- (See Education, Fellowships, above and Service following for further teaching experience)

Service

- Mathematics Graduate Students Association Officer, UC Berkeley, 2003-2007, 2008.
- Many Cheerful Facts Seminar organizer, UC Berkeley, 2003.
- Computer Committee Student Member, UC Berkeley, 2005-2006.
- Departmental Chair Selection Committee Student Member, UC Berkeley, 2006.
- President of Stebbins Hall, a Berkeley Student Co-operative, overseeing 64 student members, 2004-6, and President/Manager of Northside Co-op, overseeing 21 members, 2006-8.
- Mathematics Volunteer Tutor, San Quentin Prison College Program, 2003-2007.