
Bio Sketch: James Abello received the **PhD degree in Combinatorial Algorithms from the University of California, San Diego, and the MS degree in Operating Systems from the University of California, Santa Barbara. He is the recipient of a University of California President's Postdoctoral Fellowship in Computer Science and has been recognized with teaching awards here at Rutgers (2016 Best Teaching award in our Department) and previously at the University of California, Santa Barbara.** He has been mentor for 47 undergraduate students in the DIMACS REU Program, 10 masters and 5 Ph.D. students.

James is the **co-editor of External Memory Algorithms**, Vol. 50 of the AMS-DIMACS series (with J. Vitter, 1999) , The Kluwer **Handbook of Massive Data Sets** (with P. Pardalos and M. Resende, 2002) and **Discrete Methods in Epidemiology** (with Graham Cormode, 2006). He is founder member of the newly **created International Culture Analytics Network** supported by The Danish Council on Independent Research.

James research focus has been on Algorithms and Data Structures, Massive Data Sets, Algorithm Animation and Visualization, Combinatorial and Computational Geometry, Discrete Mathematics, and some applications in Petroleum Engineering and Epidemiology. **He has co-authored 79 papers that include publications in Communications of the ACM, IEEE Transactions in Computer Graphics and Visualization, Theoretical Computer Science, Algorithmica, Discrete and Computational Geometry, SIAM Journal of Discrete Math, and Australasian Journal of Combinatorics.**

James has lead the **development of software systems** like: MGV (A Massive Graph Visualizer, with J. Korn from Google), AGE (An Animated Graph Environment, with T. Veatch from the University of Toronto), Mirage (An Interpreted Language for Algorithm Animation, with C. Smith), A Quasi-Clique Extractor (with S. Sudarsky from Siemens Research - US), Graph View (with F. Van Ham from IBM - Netherlands), and CGV (with Christian Tominski from the University of Rostock, Germany).

James has been member of **5 PhD Thesis Committees** and has directed **10 Master Thesis in Computer Science**. He has been an invited speaker to several international and national research venues and has been a member of a variety of Conferences Program Committees.

James has held several academic positions and has been a **senior member of technical staff at AT&T Shannon Laboratories, Bell Labs** and Senior Research Scientist at Ask.com. He is currently the director of the Master Program in Computer Science here at Rutgers and for eight years has been a **DIMACS Research Professor**. James is a **Co- PI on an NSF collaborative research grant titled: Human-Computer Graph Tele-discovery and Exploration, (Total Award Amount: \$1,200,000** Period Covered: 11/1/16-10/31/20; Co-PI's: J. Abello (CS, Rutgers) and D. Chau (CS, Georgia Tech)).

Information about some of James's research projects can be obtained by accessing <http://www.mgvis.com>
