

Kevin A. Wortman

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Education

University of California, Irvine, Ph.D., Information and Computer Science, 2009
Advisor: David Eppstein

University of California, Irvine, M.S., Information and Computer Science, 2004
Concentration: Algorithms and Data Structures

University of Massachusetts, Amherst, B.S., *cum laude*, 2002.
Majors: Computer Science, Mathematics

Academic Employment

Assistant Professor, Department of Computer Science, CSU Fullerton, September 2009 to present

Research Assistant, Department of Computer Science, UC Irvine, under David Eppstein, Fall 2008

Teaching Assistant, Donald Bren School of Information and Computer Sciences, UC Irvine, 2003 - 2005

Summer Research Staff, MIT Lincoln Laboratory, Lexington, Massachusetts, summer 2002

Undergraduate Research Assistant, Laboratory for Advanced Software Engineering Research, Amherst, Massachusetts, June 2000 to December 2001

Industry Employment

Engineering Co-Op, Unisys, Mission Viejo, California, July 2008 to August 2009

Engineering Intern, Google, Mountain View, California, June to August 2005; January 2006 to August 2007

Intern, Tektronix, Chelmsford, Massachusetts, summers of 1997, 1998, and 1999

Publications

Invited, Peer Reviewed Journal Articles

- I-1. J. Augustine, D. Eppstein and K. A. Wortman, *Approximate Weighted Farthest Neighbors and Minimum Dilation Stars*, Discrete Mathematics, Algorithms and Applications (DMAA), v. 2, i. 4, pp. 553-565, DOI: 10.1142/S17938309100008872010, 2010. Preliminary version listed as C-1.
- I-2. D. Eppstein and K. A. Wortman, *Minimum Dilation Stars*, Computational Geometry: Theory and Applications, v. 37, i. 1, pp. 27-37, 2007. Preliminary version listed as C-4.

Peer Reviewed Conference Proceedings

- C-1. J. Augustine, D. Eppstein and K. A. Wortman, *Approximate Weighted Farthest Neighbors and Minimum Dilation Stars*, 16th International Computing and Combinatorics Conference (COCOON 2010), Nha Trang, Vietnam. Final version listed as I-1.
- C-2. M. Dickerson, D. Eppstein and K. A. Wortman, *Planar Voronoi Diagrams for Sums of Convex Functions, Smoothed Distance and Dilation*, 7th Int. Symp. Voronoi Diagrams in Science and Engineering (ISVD 2010), Quebec City, Canada, pp. 13-22.
- C-3. D. Eppstein and K.A. Wortman, *Optimal embedding into star metrics*, Algorithms and Data Structures Symposium (WADS), Banff, Canada. Lecture Notes in Comp. Sci. 5664, 2009, pp. 290-301.
- C-4. D. Eppstein and K.A. Wortman, *Minimum Dilation Stars*, ACM Symposium on Computational Geometry (SoCG), Pisa, Italy pp. 321-326, 2005. Final version listed as I-2.

To Appear

- T-1. D. Eppstein and K. A. Wortman, *Optimal Angular Resolution for Face-Symmetric Drawings*. Accepted to Journal of Graph Algorithms and Applications (JGAA).

Teaching

Courses Taught — CSU Fullerton

- Intro. to Programming (CPSC 120): Fall 2009 (2 sections), Spring 2010, Fall 2010 (3 sections), Spring 2011, Fall 2011 (3 sections)

- Unix and Open Source Software (CPSC 254): Spring 2010, Spring 2011
- Problem Solving Strategies (CPSC 335): Fall 2009, Spring 2010, Summer 2010, Spring 2011 (2 sections), Summer 2011
- Graduate Project (CPSC 597): Fall 2011

Courses Proposed

- Formal Language & Automata Theory (CPSC 491T), approved for Spring 2012

Teaching Assistant Experience — UC Irvine

- Honors Intro. to CS I (H21): Fall 2005
- Honors Intro. to CS II (H22): Winter 2004
- Honors Intro. to CS III (H23): Winter 2003, Spring 2004
- Engineering Data Structures (160E): Spring 2003
- Formal Languages and Automata (162): Fall 2003

Advising

Masters Theses Advised

- David Luu, *Numerical Methods in Prime Factorization: To Find or not to Find a Prime*, Summer 2010

Masters Theses Reviewed

- Tuyet Le, *Single Triangle Strips for Graphs With Boundaries*, Spring 2011
- Ashish Patel, *Cake Cutting For Real World Problems*, Fall 2010
- Rachan Tananuchittikul, *Simulating Collisions between Granular Phenomena*, Fall 2010

Masters Projects Reviewed

- Edward Duterte, *Premiere Sports System*, Spring 2011
- Jochen Schmitt, *Implementation and Analysis of Face Recognition Algorithms*, Spring 2011
- Aasma Zahid, *Open Source Virtual Folder - Application of Cloud Computing*, Spring 2011
- Vaishali Saral, *Implementing Multimodal Biometric System*, Fall 2010

- Krishna Balasa, *Performance Evaluation of TCP Algorithm Suitable for High Bandwidth-Delay Product Network*, Summer 2010

Service

University Service

- Promoting Undergraduate Research Experiences Committee (PURE): Spring 2011 to present.
- SafeSpace Ally, CSU Fullerton Multicultural Leadership Center, 2009-present

Department Service

- AY 2011-2012: ACM Club Advisor; Commencement and Undergraduate Committees
- AY 2010-2011: Commencement, Executive, and Undergraduate Committees
- AY 2009-2010: Commencement, Undergraduate Committees

Workshops and Roundtables

- *Issues in Educating Veteran Engineers: A Multi-Institution Workshop Exploring Best Practices in Educating Veterans*, University of San Diego, June 15, 2010
- *Department of Defense Roundtable: A Hispanic Engineering, Science, and Technology Week (HESTEC) 2009 Activity*, University of Texas Pan-American, September 29, 2009

Media Coverage

- The Pollak Library Blog, *Dr. Wortman's top resources for trends in Computer Science*, invited guest post, December 2010.

External Reviewer, ISAAC 2008, J. Algorithms, ACM TALG

Student Workers Union / UAW Local 2865, Irvine District 3 Steward, April 2003 to October 2007; Statewide Recording Secretary, May 2005 to October 2007

Associated Graduate Students, UC Irvine, Council Representative, School of Information and Computer Science, AY 2004-2005 and AY 2006-2007

Awards

Carol Barnes Excellence in Teaching Award Nominee, February 2011

Faculty Recognition: Scholarly & Creative Activity, *Scholarship that results in the highest quality, peer reviewed journal articles*, CSU Fullerton, April 2010

Best Paper Award, Algorithms and Data Structures Symposium (WADS) 2009, for *Optimal embedding into star metrics*; Sponsored by Springer Verlag

Graduate Assistance In Areas Of National Need (GAANN) Fellow, 2004-2005 academic year

UMass Amherst Computer Science Talent Advancement Program, 1998-1999 academic year

Affiliations

Association of Computing Machinery (ACM)

Society for Industrial and Applied Mathematics (SIAM)