

Robert Webb

California Polytechnic State University
Department of Mathematics and
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- SKILLS**
- ◇ C, C++, Java, Pascal, HTML, Lisp/Scheme, L^AT_EX, MIPS Assembly, Logic Design in Verilog, UNIX System programming
 - ◇ Excellent verbal and written communications skills
 - ◇ Computer Graphics with OpenGL and GLUT. Scientific and Engineering Visualization.
 - ◇ Familiar with Unix and Linux, Windows, and MacOS
 - ◇ Experienced in development using GNU, Visual Studio .NET, and XCode environments
 - ◇ System administration, including Network Drives, RAID, and virtualization
- EDUCATION**
- ◇ **California Polytechnic State University**, San Luis Obispo, CA.
M.S. in Computer Science *Expected June 2010*.
Thesis title: *An Educational Simulation of an Asynchronous Processor using MIPS Assembly Language*
 - ◇ **California Polytechnic State University**, San Luis Obispo, CA.
M.S. in Mathematics *with Distinction*, December 2007.
GPA: 3.93
 - ◇ **California State University**, Bakersfield, CA.
M.A. in Teaching Mathematics, March 2007.
Thesis title: *Assessing the Variability of Some Bootstrap-Based Algorithms to Collusion Attacks on Digital Watermarks*.
GPA: 4.00
Clear California Teaching Credential in Mathematics, June 2004
 - ◇ **University of California**, Santa Barbara, CA.
B.S. in Creative Studies with Mathematics Emphasis
The College of Creative Studies is the honors college at UCSB. All degrees awarded at the college are in Creative Studies with emphasis in a particular subject. Requirements exceed that of a traditional mathematics major, and the college has been called "a graduate school for undergraduates."
 - ◇ **Phillips Academy**, Andover, MA.
High School Diploma
- WORK EXPERIENCE**
- ◇ **Lecturer**, California Polytechnic State University
 - Mathematics Department (January 2008 – present)
Courses: Calculus I, Calculus II, Calculus for Business, Pre-Calculus
 - Computer Science Department (January 2008 – present)
Course: Programming for Scientists and Engineers.
 - ◇ **Teaching Associate**, California Polytechnic State University
 - Mathematics Department (September 2006 – December 2007)
Courses: Calculus I, Pre-Calculus

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- Graduate student representative on the Mathematics Department curriculum committee for 2007-2008 academic year.
- Computer Science Department (September 2007 – December 2007)

- ◇ **Teacher**, Bakersfield High School, Bakersfield, CA (August 2003 - July 2006)
 - Courses: Beginning Algebra, Advanced Algebra, Geometry, Honors Geometry
 - Assistant Coach, Boys Varsity Swimming (2004)
 - Head Coach, Boys Varsity Swimming (2005-2006)

- RESEARCH INTERESTS
 - ◇ Computer Architecture, Asynchronous Design, Computer Graphics, Security
 - ◇ Cryptography, Theory of Computation, Digital Watermarking, Image Processing, Statistics, Combinatorics, Graph Theory

- CONFERENCES ATTENDED
 - ◇ Crypto 2008, the 28th Annual International Cryptography Conference, University of California, Santa Barbara, CA, August 17-21, 2008.
 - ◇ Joint Statistical Meetings 2008, Denver, CO, August 3-7, 2008.
 - ◇ GSCC 2008, the 4th Annual Graduate Student Combinatorics Conference, University of California, Davis, CA, April 12-13, 2008.
 - ◇ Crypto 2007, the 27th Annual International Cryptography Conference, University of California, Santa Barbara, CA, August 19-23, 2007.
 - ◇ Combinatorics and Optimization 40th Anniversary Conference, University of Waterloo, Ontario, June 18 - 23, 2007.

- PUBLICATION
 - A Time Series Intra-Video Collusion Attack on Frame-by-Frame Video Watermarking (with Sam Behseta, Charles Lam, and Joseph Sutton) *published in Lecture Notes in Computer Science: Proceedings of 8th International Conference on Digital Watermarking, 2008*
(abstract available at www.calpoly.edu/~webb/research/MoviePaper/).
 - A Bootstrap Approach to Digital Watermarks in the Frequency Domain (with Sam Behseta and Charles Lam) *published in Lecture Notes in Computer Science: Proceedings of 10th International Conference on Information and Communications Security, 2008*, p. 361-375.
(abstract available at www.calpoly.edu/~webb/research/ICICS2008Paper/).

- PRESENTATIONS
 - Probabilistic Watermark Detection in Movies *presented at the 2008 Joint Statistical Meetings*, Denver, CO, August 3, 2008.
 - Digital Watermarking and Bootstrap-Based Algorithms *presented at the 7th Annual College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA, May 18, 2007.
 - Assessing the Variability of Some Bootstrap-Based Algorithms to Collusion Attacks on Digital Watermarks *presented at the poster session of the Combinatorics and Optimization 40th Anniversary Conference*, University of Waterloo, Ontario, June 18, 2007
 - Digital Watermarking and Bootstrap-Based Algorithms *presented at the Mathematics Seminar* California State University, Bakersfield, September 26, 2006.

- AWARDS
 - ◇ **Outstanding Graduate Paper** College of Science and Mathematics, California State University, Bakersfield, CA, June 2007.

- REFERENCES
 - Chris Lupo, *Assistant Professor*, Computer Science Department, California Polytechnic State University, San Luis Obispo, CA
 - Estelle Basor, *Deputy Director*, American Institute of Mathematics, Palo Alto, CA

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Anthony Mendes, *Assistant Professor*, Mathematics Department California Polytechnic State University, San Luis Obispo, CA

Philip Nico, *Associate Professor*, Computer Science Department, California Polytechnic State University, San Luis Obispo, CA

John Seng *Associate Professor*, Computer Science Department, California Polytechnic State University, San Luis Obispo, CA