

David S. Janzen
Assistant Professor
Department of Computer Science
California Polytechnic State University
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Professional Preparation

Tabor College BA in Mathematics and Computer Science	Hillsboro, KS 1990
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Eötvös University Budapest Semesters in Mathematics	Budapest, Hungary 1989
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University of Kansas M.S. in Computer Science	Lawrence, KS 1993
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University of Kansas Ph.D. in Computer Science	Lawrence, KS 2006
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Appointments

California Polytechnic State University Assistant Professor of Computer Science	San Luis Obispo, CA 2006 to present
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Simex LLC Owner, Consultant, and Trainer	McPherson, KS 2001 to present
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Bethel College Associate Professor of Computer Science with tenure	North Newton, KS 1997 to 2006
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Sprint Corporation Artificial Intelligence Analyst; Manager of Applied Development	Overland Park, KS 1993 to 1997
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Ruf Corporation Software Engineer	Olathe, KS 1991 to 1992
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Related Publications

1. David Janzen and Hossein Saiedian, “Does Test-Driven Development Really Improve Software Design Quality?,” *IEEE Software*, 25(2), pages 77-84, March 2008
2. David Janzen and Hossein Saiedian, “Test-Driven Learning in Early Programming Courses,” *Proceedings of the 39th SIGCSE Technical Symposium on Computer Science Education*, 40(1), pages 532-536, Portland, OR, ACM Press, March 2008
3. David Janzen and Hossein Saiedian, “A Leveled Examination of Test-Driven Development Acceptance,” *International Conference on Software Engineering (ICSE’07)*, pages 719-722, Minneapolis, MN, May 2007
4. David Janzen and Hossein Saiedian, “On the Influence of Test-Driven Development on Software Design,” *Nineteenth Conference on Software Engineering Education and Training (CSEET’06)*, Turtle Bay, HI, pages 141-148, IEEE-CS, April 2006

5. David Janzen and Hossein Saiedian, "Test-Driven Learning: Intrinsic Integration of Testing into the CS/SE Curriculum," *Proceedings of the 37th SIGCSE Technical Symposium on Computer Science Education*, pages 254-258, ACM Press, March 2006

Additional Publications

1. David Janzen and Hossein Saiedian, "Test-Driven Development: Concepts, Taxonomy, and Future Direction," *IEEE Computer*, 38(9), pages 43-50, September 2005, Cover Feature
2. David Janzen, "Software Architecture Improvement through Test-Driven Development," ACM Student Research Competition, Grand Finals Third-place winner, ACM Digital Library, 2006
3. David Janzen and Jungwoo Ryoo, "Seeds of Evidence: Integrating Evidence-Based Software Engineering," *Conference on Software Engineering Education and Training (CSEE&T'08)*, pages 223-230, Charleston, South Carolina, April 2008
4. David Janzen, Clark Turner, and Hossein Saiedian, "Empirical Software Engineering in Industry Short Courses," *Twentieth Conference on Software Engineering Education and Training (CSEE&T'07)*, pages 89-96, Dublin, Ireland, July 2007
5. David Janzen, "From RS-232 to Object Request Brokers: Incremental Object-Oriented Networking Projects," *Proceedings of the 32nd SIGCSE Technical Symposium on Computer Science Education*, pages 41-44, ACM Press, 2001

Synergistic Activities

1. "Test-Driven Learning: Integrating Test-Driven Development in an Early Programming Course," \$25,000 one-year grant from Lockheed Martin to develop and assess lab materials in CS2, September 2007, Principal Investigators: John Clements and David Janzen
2. "Software Engineering Evidence Database," <http://www.evidencebasedse.com>, Prototype created Fall 2007
3. "Software Architecture Improvement Through Test-Driven Development: An Empirical Study," \$5,000 Special Projects Award, ACM Special Interest Group on Computer Science Education (SIGCSE), 2005
4. Program Committee Member and Short Papers Chair, Conference on Software Engineering Education and Training (CSEE&T, 2008)
5. Technical Paper and Tutorial Reviewer, Technical Symposium on Computer Science Education (SIGCSE, 2005-2008)

Collaborators

Brian Bowser (Cessna), John Clements (Cal Poly), Frederico Fonseca (Penn State), John Gauch (U. of Arkansas), Michael Haungs (Cal Poly), Jeff Mendonca (Intuit), Kathryn Mitchell (Cessna), Sheila O'Connor (LSI), Jungwoo Ryoo (Penn State Altoona), Clark Turner (Cal Poly), Jeff Zortman (Cessna)

Advisors

Hossein Saiedian (University of Kansas), Jerzy Gryzmala-Busse (University of Kansas)

Graduate Students Advised

Brian Abreu, Chetan Desai, Adam Dukovich, Chris Gray, Jimmy Hua, Kate Razina (all at Cal Poly)