

Paul De Palma, Ph.D.
Professor of Computer Science
School of Engineering and Applied Science
Gonzaga University
Spokane, WA 99258-0026
depalma@gonzaga.edu

Computer Industry and Academic Experience

Gonzaga University

Spokane, WA
Professor of Computer Science
2005-present
Chair, 2008-2012
Assistant/Associate Professor of Computer Science
1990-2005

Next It Corporation

Spokane, WA
Speech recognition software developer
2007-2010

Gonzaga University
Spokane, WA
Adjunct Professor of Communications Leadership
2005-2008

Faculty member

The Cagli Project: A Multimedia Journalism Workshop

Cagli, Italy
Loyola-Maryland University
Baltimore, MD
Summers 2004, 2005

Itron Inc.

Spokane, WA
Consultant on database management and operating systems
Summers 1994, 1995, 1996

Towers Perrin (Towers Watson)

Philadelphia, PA

Towers Perrin's clients include three quarters of the world's 500 largest companies.

Software developer/project leader/contractor

1983 -1990

Sperry Univac (Unisys)

Philadelphia, PA

Sperry Univac traces its origins to the ENIAC team at The University of Pennsylvania.

Software developer

1980-1983

Education

University of New Mexico

Ph.D., Computational Linguistics, 2010

Committee

George Luger (Computer Science, Penn)

Caroline Smith (Linguistics, Yale)

Charles Wooters (Computer Science & Linguistics, Berkeley)

William Croft (Linguistics, Stanford)

Dissertation Title: Syllables and Concepts in Large Vocabulary Speech Recognition

Temple University

M.S., Computer Science, 1990

Advisor: Judith Weiner (Linguistics, Penn)

Research: lexical ambiguity

University of California at Berkeley

M.A., English

St. Louis University

A.B, Honors Program English

Honors and Appointments

Visiting Research Fellow

[Walter J. Ong, S.J. Center for Language, Culture, and Media Studies](#)

St. Louis University

St. Louis, MO

2015-2016

Research: rhetoric and privacy

Visiting Research Professor
Department of Speech and Hearing Sciences
Elson S. Floyd College of Medicine
Washington State University
Spokane, WA
2014–2015

Research: fundamental frequency in parents of traditionally developing and hard-of-hearing children.

The Best American Science and Nature Writing, 2000
Essay, "http://www.when.is.enough.enough.com," selected for inclusion.
Edited by David Quammen and Burkhard Bilger
Houghton Mifflin, 2000

University Fellow
Temple University, 1987-1989

Woodrow Wilson Fellow
University of California at Berkeley

Magna Cum Laude
St. Louis University

Phi Beta Kappa
St. Louis University

Alpha Sigma Nu, Jesuit Honor Society
St. Louis University

Honors Program
St. Louis University

Research Interests

Development of speech and language
Automatic speech recognition
Probabilistic syllabification
Digital privacy

Media

Work with Mark Vandam on child-directed speech
(<https://labs.wsu.edu/vandam/media/>)

De Palma, Paul. (2015). Our Changing Ideas about Privacy in the Current Digital Age, 30 Minute Interview with Marcus Smith. *Thinking Aloud*, WBYU/SIRIUSXM. Broadcast 11/2/15. Available at:
<http://www.classical89.org/thinkingaloud/archive/episode/?id=11/2/2015>

De Palma, Paul. (2011). Interview with Joel Smith. Computers Can Read Your Mind and Four Other Lessons Local Universities Taught Last Year. *The Inlander*, 6/15/2011.

De Palma, Paul. (2010). Thirty Minute Interview on Automatic Speech Recognition with Tony Flinn, *Just a Theory*, Show 43, KPBX/KSFC, Spokane Public Radio, 12/5/2010.

Publications/Presentations

I. Computational Linguistics & Genetic Algorithms

VanDam, M., De Palma, P. (2018). A modular, extensible approach to massive ecologically-valid behavioral data. *Behavioral Research Methods*. Under Review.

Krantz, J., Dulin, M. De Palma, P. (2018). Syllabification by phone categorization. Poster to be presented at and paper appearing in proceedings of GECCO 2018: The Genetic and Evolutionary Computation Conference, Kyoto, July 15th to 19th, 2018.

De Palma, P., VanDam, M. (2017). Using Automatic Speech Processing to Analyze Fundamental Frequency of Child-Directed Speech Stored in a Very Large Audio Corpus. *Proceedings of the Joint 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems*, Otsu, Japan, June 27-30, 2017.

VanDam, M., Warlaumont, A. Bergelson, E., Cristia, A., Soderstrom, M., De Palma, P., Mac Whinney, B. (2016). HomeBank: An Online Repository of Daylong Child-Centered Audio Recordings. *Seminars in Speech and Language*. 37(02):128-142 .

VanDam, M., De Palma, P., Silbert, N. (2016). Fidelity of Automatically Coded Family Speech of Mothers, Fathers, and 30 month-old Children with and without Hearing Loss. Presentation at Paper Symposium: Studying Language Development through Human and Automated Annotation of Infants in Natural Auditory Environments at *2106 International Conference on Infant Studies, New Orleans, LA, May, 2016*.

VanDam, M., Strong, W., & De Palma, P. (2015). Characteristics of fathers' prosody when talking with young children. Poster presented at the *American Speech-Language Hearing Association Convention*, Denver, CO, November, 2015.

- VanDam, M., De Palma, P., Strong, W. (2015). Fundamental Frequency of Speech Directed to children Who Have Hearing Loss. Poster, 169th Meeting of the Acoustical Society of America, Pittsburgh, PA, May, 2015.
- VanDam, M. , De Palma, P., Strong, W., Kelly, E. (2015). Child-Directed Speech to Preschoolers Who Are Hard-of-Hearing. Poster, 89th Annual Meeting of the Linguistic Society of America, Portland, OR, Jan. 2015.
- VanDam, M. De Palma, P., Strong, W., Kelly, E. (2015). Child-Directed Speech of Fathers. Poster, 89th Annual Meeting of the Linguistic Society of America, Portland, OR, Jan. 2015.
- VanDam, M., De Palma, P. (2014). Fundamental Frequency of Child-Directed Speech Using Automatic Speech Recognition. *Proceedings of the 7th International Conference on Soft Computing and Intelligent Systems and the 15th International Symposium on Advanced Intelligent Systems*, Kitakyushu, Japan, Dec., 2014.
- De Palma, P. (2014). Ongian Implications for Automatic Speech Recognition. Presentation at Technology, Rhetoric, and Cultural Change: Walter J. Ong, S.J. in the Age of Google, Facebook and Twitter, Gonzaga University, Spokane, WA, Feb., 2014.
- De Palma, P.(2014). Probabilistic Methods in Automatic Speech Recognition. In M. Khosrow-Pour (ed.), *Encyclopedia of Information Science and Technology*. Hershey, PA: IGI Global.
- De Palma, P., Ganzerli, S., Overbay, S., Luger, G., Glaspey, K. (2013). Metathesis and the Genetic Algorithm: Language as a Complex Adaptive System. *Proceedings of the 24th Midwest Artificial Intelligence and Cognitive Science Conference*, New Albany, IN, April, 2013.
- De Palma, P., Wooters, C. (2012). Automatic Speech Recognition with Syllables and Concepts. *Proceedings of the 6th International Conference on Soft Computing and Intelligent Systems and the 13th International Symposium on Advanced Intelligent Systems*, Kobe, Japan, November, 2012.
- De Palma, P., Luger, G., Smith, C., Wooters, C. (2012). Bypassing Words in Automatic Speech Recognition. *Proceedings of the 23rd Midwest Artificial Intelligence and Cognitive Science Conference*, Cincinnati, Ohio, April, 2012.
- Overbay, S., De Palma, P., Hurson, M., Arnold, T., Pierce, A. (2012). Genetic Algorithms and Book Embeddings: A Dual Layered Approach. *Proceedings of the 23rd Midwest Artificial Intelligence and Cognitive Science Conference*. Poster presented at MAICS2012, Cincinnati, Ohio, April, 2012.

- De Palma, Paul. (2010). Metathesis in English and Hebrew: A Computational Account of Usage-Based Phonology. Poster, Annual meeting of the Cognitive Science Society, Portland, OR, Aug. 2010.
- De Palma, P. (2009). Chapter 28: Genetic and Evolutionary Computing. In G. Luger, W. Stubblefield (eds.), *Artificial Intelligence Programming in Prolog, Lisp, and Java*. NY: Addison-Wesley.
- Ganzerli, Sara, De Palma, Paul. (2008). Genetic Algorithms and Structural Design Using Convex Models of Uncertainty. In Y. Tsompanakis, N. Lagaros, M. Papadrakakis (eds.), *Structural Design Optimization Considering Uncertainties*. London: A.A. Balkema Publishers, A Member of the Taylor and Francis Group.
- Overbay, Shannon, Ganzerli, Sara, De Palma, Paul, Brown, A., Stackle, P. (2006). Trusses, NP-Completeness, and Genetic Algorithms. *Proceedings of the 17th Analysis and Computation Specialty Conference*, St. Louis.
- Ganzerli, Sara, De Palma, Paul, Stackle, P., Brown, A. (2005). Info-Gap Uncertainty on Structural Optimization via Genetic Algorithms. *Proceedings of the Ninth International Conference on Structural Safety and Reliability*, Rome.
- Ganzerli, Sara., De Palma, Paul, Smith, J., Burkhart, M. (2003). Efficiency of genetic algorithms for optimal structural design considering convex modes of uncertainty. *Proceedings of The Ninth International Conference on Applications of Statistics and Probability in Civil Engineering*, San Francisco.
- Weiner, E. Judith, De Palma, Paul. (1993). Some Pragmatic Features of Lexical Ambiguity and Simple Riddles. *Language and Communication*, 13,3.
- De Palma, Paul, Weiner, E. Judith. (1992). Riddles: Accessibility, Parallelism and Knowledge Representation. *Proceedings of CoLing-92: The Fourteenth International Conference on Computational Linguistics*, Nantes, France.
- Weiner, E. Judith, De Palma, Paul. (1990). When is a Riddle Not a Riddle. Presented at *The Annual Conference of the International Pragmatics Association*, Barcelona, Spain.

II. The Social Impact of Computing

- De Palma, P. (2016). Pre-Literates in Silicon Valley. Paper presented at the *17th Annual Convention of the Media Ecology Association*. Bologna, Italy, June 23-26, 2016.
- De Palma, Paul (ed.). (2011). *Annual Editions: Technologies, Social Media, and Society 12/13*. Dubuque, Iowa: Duskin/McGraw-Hill.
- De Palma, Paul (ed.). (2010). *Annual Editions: Technologies, Social Media, and Society 11/12*. Dubuque, Iowa: Dushkin/McGraw-Hill.

- De Palma, Paul (ed.). (2009). *Annual Editions: Computers in Society 10/11*. Dubuque, Iowa: Dushkin/McGraw-Hill.
- De Palma, Paul (ed.). (2008). *Annual Editions: Computers in Society 09/10*. Dubuque, Iowa: Dushkin/McGraw-Hill.
- De Palma, Paul (ed.). (2007). *Annual Editions: Computers in Society 08/09*. Dubuque, Iowa: Dushkin/McGraw-Hill.
- De Palma, Paul. (2006). Women, Mathematics and Computing. In E. Trauth (ed.), [Encyclopedia of Gender and Information Technology](#). Hershey, PA: Idea Group Reference.
- De Palma, Paul (ed.). (2005). *Annual Editions: Computers in Society 06/07*. Dubuque, Iowa: Dushkin/McGraw-Hill.
- De Palma, Paul. (2005). The Software Wars: Why You Can't Understand Your Computer. *The American Scholar*, 74, 1.
- De Palma, Paul (ed.). (2004). *Annual Editions: Computers in Society 05/06*. Dubuque, Iowa: Dushkin/McGraw-Hill.
- De Palma, Paul (ed.). (2003). *Annual Editions: Computers in Society 04/05*. Guilford, CT: Dushkin/McGraw-Hill.
- De Palma, Paul. (2003). An Italian (American) Among the Cyborgs. *Voices in Italian - Americana: A Literary and Cultural Quarterly* 14, 2.
- De Palma, Paul. (2002). Consciousness Constrained: A Review of *Thinks...* by David Lodge. *Artificial Intelligence Magazine* 23, 4.
- De Palma, Paul. (2002). Response to 'Technology, Humanity, Community' by Gerry Philipsen, *26th Annual Conference of The Northwest Communication Association*, Coeur d'Alene, Idaho.
- De Palma, Paul. (1999). http://www.when_is_enough_enough?.com. *The American Scholar*, 68,1.
- De Palma, Paul. (1994-1998). Book Editor's Message, a quarterly column. *Computers and Society*.
- De Palma, Paul. (1995). Review of *Technopoly: The Surrender of Culture to Technology* by Neil Postman. *Computers and Society*, 25,1.
- De Palma, Paul. (1994). Response to "What We Have Learned from a Decade of Research (1983 - 1993) on The Psychological Impact of Technology." *Computers and Society*, 24,1.

III. Computer Science Education

Ganzerli, S., Overbay, S., De Palma, P., Kilzer, A., Datteri, R., Fitzgerald, S. (2008). Optimizing Resources in Undergraduate Research. *Proceedings of the 18th A&C Specialty Conference*, Vancouver.

De Palma, Paul, Frank, C., Gladfelter, S., Holden, J. (2004). Cryptography and Computer Security in the Undergraduate Curriculum. *The 35th Annual Technical Symposium on Computer Science Education*, Norfolk, VA.

De Palma, Paul. (2003). A Tale of Two Cultures. *Software Engineering Notes* 28, 5.

Henderson, Peter, Almstrum, Vicki, De Palma, Paul, Hazzen, Orit, Potter-Kihlstrom, Kim. (2002). Women, Mathematics and Computer Science. *The 33rd Annual Technical Symposium on Computer Science Education*, Cincinnati/Covington (March, 2002).

De Palma, Paul, Withers, Alex. (2001). Super Computing on a Budget. *The Journal of Computing in Small Colleges* 17,2. Originally presented at CCSC Northwestern Conference, Tacoma, WA (10/2001).

De Palma, Paul. (2001). Triple Boot Machines for Cash-Strapped Small Colleges. *The Journal of Computing in Small Colleges* 16, 2. Originally presented at CCSC Northwestern, Beaverton OR (10/2000).

De Palma, Paul. (2001). Why Women Avoid Computer Science. *The Communications of the ACM* 44, 6.

De Palma, Paul. Withers, Alex, Hendricks, Brett. (2000). Networking Machines Running Red Hat Linux 5.2: A Recipe. *The Journal of Computing in Small Colleges*, 15, 2. Originally presented at CCSC Northwestern Conference, Spokane, WA (9/1999).

De Palma, Paul. (1999). Using Industrial Sponsors in Software Engineering Courses: A Report from the Front Lines. *Forum for Advancing Software Engineering Education* 9, 8.

De Palma, Paul. (1997). Retraining High School Teachers in the Fundamental Principles of Computer Science. *Journal of Computers in Mathematics and Science Teaching*, 16, 4.

De Palma, Paul. (1996). Microcomputers (and other Sorrows). *Poster, Twenty-Seventh Annual Technical Symposium on Computer Science Education*. Philadelphia, PA.

Bryant, Robert, De Palma, Paul. (1995). Computer Science for Poets (and other Smart People). *Proceedings of the Rocky Mountain Conference on Small College Computing*, Salt Lake City.

Bryant, Robert, De Palma, Paul. (1993). A First Course in Computer Science for Small Four Year CS Programs. *SIGCSE Bulletin: A Quarterly Publication of the Association for Computing Machinery*, 25, 2.

IV. Articles Reprinted in Full or in Part

De Palma, Paul (2008). http://when_is_enough_enough?.com. In L. Troyka, D. Hesse (eds.), *Prentice-Hall Handbook for Writers*, 9th Edition. Upper Saddle River, NJ: Prentice-Hall.

De Palma, Paul. (2004). http://when_is_enough_enough?.com. In L. Quitman Troyka (ed.), *Simon and Schuster Handbook for Writers*. NY: Simon and Schuster.

De Palma, Paul. (2003). http://when_is_enough_enough?.com. In L. Bloom, E. White, S. Borrowman (eds.), *Inquiry: Question, Reading, Writing*. NY: Prentice-Hall.

De Palma, Paul. (2002). Why Women Avoid Computer Science. In K. Schellenberg (ed.), *Computers in Society 03/04*, ed. Kathryn Schellenberg. Guilford, CT: Dushkin/McGraw-Hill.

De Palma, Paul. (2002). http://when_is_enough_enough?.com. In L. Bloom, V. Smith (eds.). *The Essay Connection*. NY: Houghton-Mifflin.

De Palma, Paul. (2002). http://when_is_enough_enough?.com. In J. Royster (ed.), *Critical Inquiries: Readings on Culture and Community*. NY: Pearson Education.

De Palma, Paul. (2000). http://when_is_enough_enough?.com. In David Quammen, Burkhard Bilger (eds.), *Best American Science and Nature Writing, 2000*. NY: Houghton-Mifflin.

De Palma, Paul. (2000). http://www.when_is_enough_enough?.com. In K. Schellenberg (ed.). *Computers in Society 00/01* ed., Guilford, CT: Dushkin/McGraw Hill.

Ph.D. Thesis Committees

Beaver, Ian (2018). *Automatic Conversation Review for Intelligent Virtual Assistants*. Department of Computer Science, University of New Mexico.

M.A. Thesis Committees

Jessica Beckendorf (2014). Mapping with Ushahidi: A Uses and Gratifications Approach to Crowd-sourced Mapping, M.A., Dept. of Communication and Leadership Studies, Gonzaga.

Charlotte Saucedo (2011). Adolescent's Use of Instant Communications and their Social Development, M.A., Dept. of Communication and Leadership Studies, Gonzaga.

Regina Dowling (2010). Sybaritic Cyberspace: A Meta-Analysis of Computer Mediated Sexual Communication Literature, M.A., Dept. of Communication and Leadership Studies, Gonzaga.

Danielle Meenach (2009). The Evolution of Instant Messaging in the Workplace: A Meta-Analysis: Organizational Impacts and Best Practices, M.A., Dept. of Communication and Leadership Studies, Gonzaga.

Rebecca Weaver (2008). Senior Citizens and Internet Usage, M.A., Dept. of Communication and Leadership Studies, Gonzaga.

Undergraduate Research Directed/Co-Directed

Krantz, J. Dulin, M. (2018). Syllabification by Categorization. Spokane Intercollegiate Research Conference, Whitworth University, April 27-28 (faculty advisor: Paul De Palma).

Krantz, J., Dulin, M. (2017). A Probabilistic Syllabifier Using Hidden Markov Models and the Genetic Algorithm. Center for Undergraduate Research and Creative Inquiry ZagFam Weekend poster session. Gonzaga University, October 7 (faculty advisor: Paul De Palma).

Krantz, J., Dulin, M. (2017). Probabilistic Syllabification of English Words. Spokane Intercollegiate Research Conference, Gonzaga University, April 21-22. Best Oral Presentation (faculty advisor: Paul De Palma).

Krantz, J., Dulin, M. (2017). Machine Learning Accuracy in Automatic Part-Of-Speech Tagging. Spokane Intercollegiate Research Conference, Gonzaga University, April 21-22 (faculty advisor: Paul De Palma).

Carter Timm, (2017). A Non-Uniform, Event-Driven Sampling Waveform Approximation Technique Applied to Context-Free Phone Classification for Automatic Speech Recognition. Spokane Intercollegiate Research Conference, Gonzaga University, April 21-22 (faculty advisor: Paul De Palma).

Lyons, Rianne (2017). Fundamental Frequency Analysis with Speech Processing Tools for Large Corpora. Spokane Intercollegiate Research Conference, Gonzaga University, April 21-22 (faculty advisor: Paul De Palma), B.S. thesis.

Cullitan, C. (2016). A Parallel Genetic Algorithm for Book Embedding. Spokane Intercollegiate Research Conference. Whitworth University, April 20, 2016 (faculty advisors: Paul De Palma, Shannon Overbay), B.S. thesis.

- Bogensberger, B. (2016). Zipfian Distribution of Words and Word Phrases in American English Speech. Spokane Intercollegiate Research Conference. Whitworth University, April 20, 2016 (faculty advisor: Paul De Palma).
- Birmingham, C. (2014). Grammatical and Semantic Coherence as Related to N-Gram Size in the Brown Corpus. Spokane Intercollegiate Research Conference. Gonzaga University, April 26, 2014 (faculty advisor: Paul De Palma).
- Joplin, L., Cullitan, C. (2014). Book Embeddings: Using Polya's Enumeration Theorem to Minimize the Search Space for the Genetic Algorithm (Part 1). Spokane Intercollegiate Research Conference. Gonzaga University, April 26, 2014 (faculty advisors: Shannon Overbay, Paul De Palma).
- Harris, M., Johnson, L. (2014). Book Embeddings: Using Polya's Enumeration Theorem to Minimize the Search Space for the Genetic Algorithm (Part 2). Spokane Intercollegiate Research Conference, Gonzaga University, April 26, 2014 (faculty advisors: Shannon Overbay, Paul De Palma).
- Joplin, L., Mai, M. (2013). Searching for Optimal Book Embeddings for Families of Graphs. Annual Meeting of the Pacific Northwest Section of the MAA, Willamette University, Salem, Oregon, April 13 (faculty advisors: Shannon Overbay, Paul De Palma).
- Joplin, L., Mai, M. (2013). Searching for Optimal Book Embeddings for Families of Graphs. Spokane Intercollegiate Research Conference, Whitworth University, Spokane, WA, April 27 (faculty advisors: Shannon Overbay, Paul De Palma).
- Hurson, M. (2012). *Book Embedding and the Genetic Algorithm: A Dual-Layered Approach (Part 1)*. Northwest Undergraduate Mathematics Symposium (NUMS), Lewis and Clark College, Portland, OR, March 10 (faculty advisors: Shannon Overbay, Paul De Palma).
- Arnold, T. (2012). *Book Embedding and the Genetic Algorithm: A Dual-Layered Approach (Part 2)*. Northwest Undergraduate Mathematics Symposium (NUMS), Lewis and Clark College, Portland, OR, March 10 (faculty advisors: Shannon Overbay, Paul De Palma).
- Hurson, M. (2012). *A Genetic Algorithm for Optimized Book Embedding: A Dual-Layered Approach (Part 1)*. Annual Meeting of the Pacific Northwest Section of the Mathematical Association of America (PNWMAA), University of Portland, Portland, OR, April 20-21 (faculty advisors: Shannon Overbay, Paul De Palma).
- Arnold, T. (2012). *A Genetic Algorithm for Optimized Book Embedding: A Dual-Layered Approach (Part 2)*. Annual Meeting of the Pacific Northwest Section of the Mathematical Association of America (PNWMAA), University of Portland, Portland, OR, April 20-21 (faculty advisors: Shannon Overbay, Paul De Palma).

- Hurson, M. (2011). *The Genetic Algorithm: Searching for an Optimal Book Embedding*. Spokane Regional Mathematics Colloquium, Gonzaga University, October 5 (faculty advisors: Shannon Overbay and Paul De Palma).
- Ratum, C., Topacio, S. , Hurson, M (2011). Book Embedding with the Genetic Algorithm. Spokane Intercollegiate Research Conference, Whitworth University, April 16 (faculty advisors: Shannon Overbay, Paul De Palma).
- Haddock, Jamie (2011). A Probabilistic Part of Speech Tagger. Spokane Intercollegiate Research Conference, Whitworth University, April 16 (faculty advisor: Paul De Palma)
- Glaspey, K. (2008). Modeling Metathesis Using Genetic Algorithms. Spokane Intercollegiate Research Conference, Gonzaga University, April 12 (faculty advisor: Paul De Palma).
- Kilzer, A., Ruckert, A. (2008). Genetic Algorithms for Optimized Book Embeddings II. Spokane Intercollegiate Research Conference, Gonzaga University, Spokane, April 12, 2008 (faculty advisors: Shannon Overbay, Paul De Palma).
- Kilzer, A. (2007). Genetic Algorithms and Book Embedding. Poster, Engineering Week, Gonzaga University, Spokane, WA, February 22 (faculty advisors: Shannon Overbay, Paul De Palma).
- Dahmen, K., Kilzer, A. (2006). Genetic Algorithms for Optimized Book Embedding. Spokane Intercollegiate Research Conference, Whitworth University, April 7 (faculty advisors: Shannon Overbay, Sara Ganzerli, Paul De Palma).
- Datteri, R., (2006). Genetic Algorithms in NP Complete Problems. Spokane Intercollegiate Research Conference, Whitworth University, April 7 (faculty advisors: Shannon Overbay, Sara Ganzerli, Paul De Palma)
- Fitzgerald, S. (2006). Multi-Level Hybrid Clusters. Spokane Intercollegiate Research Conference, Whitworth University, April 7 (faculty advisors: Shannon Overbay, Paul De Palma, Sara Ganzerli).
- Fitzgerald, S., Brown, A., Burton, A., Stackle, P. (2005). Natural Selection as a Means of Problem Solving. Annual Meeting of the Pacific Northwest Section of the Mathematical Association of America, University of Puget Sound, April 1-2 (faculty advisors: Shannon Overbay, Sara Ganzerli, Paul De Palma)
- Burton, A. (2004). Truss Optimization Using Genetic Algorithms. Genetic and Evolutionary Computation Conference, Seattle, June 24-26. (faculty advisors: Sara Ganzerli, Paul De Palma).

Grants

I. External

De Palma, P. (PI)
Amazon Web Services
In-kind grant to support compute-intensive research in natural language processing.
\$10,000
2018

VanDam, M. (PI), Washington State University
De Palma, P (Consultant), Gonzaga University
National Science Foundation
Collaborative Research: Enabling Access to and Analysis of Shared Daylong Child and Family Audio Data
Award Number: 1539133
\$281,958
(In collaboration with: A. Warlaumont, UCLA, \$447,225, B. MacWhinney, Carnegie Mellon, \$256,256)
2015

VanDam, M. (PI)
De Palma, P. (Co-PI)
Washington State University, Spokane, Faculty Seed Grant
\$15,000
2015

Labay, V. (PI)
De Palma, P (Co-PI)
Kern Family Foundation
Integrating the Entrepreneurial Mindset into Engineering Education
\$658,529
2012-2014

De Palma, P (PI)
McFarland, M (Co-PI)
National Science Foundation/Gonzaga University
Matching grant for a data communications lab
\$18,356
1997

II. Internal

McDonald Word Award
(some with Sara Ganzerli and/or Shannon Overbay)
Gonzaga University
Undergraduate research assistant support
\$16,971
Regularly since 2000

Gonzaga University Research Council
(some with Sara Ganzerli and/or Shannon Overbay)
Undergraduate research assistant support, funding to attend a summer MIT workshop in cryptography
Regularly since 2000
\$15,494

Professional Memberships

Linguistics Society of America (LSA)
IEEE (Institute of Electrical and Electronic Engineers) Computer Society
American Association of University Professors

Professional Service

Reviewer
91st, 87th Annual Meeting of the Linguistics Society of America
Austin, January, 2017
Boston, January, 2013

Reviewer
CogSci 2018, 2016, 2015, 2014, 2013, 2012, 2011
40th, 38th, 37th, 36th, 35th, 34th, 33rd meetings of the Cognitive Science Society
Madison, Philadelphia, Pasadena, Quebec City, Berlin, Sapporo, Boston

Reviewer
[EAP_COGSCI 2015](#)
The EuroAsianPacific Joint Conference on Cognitive Science:
4th European conference on Cognitive science & 10th International Conference on Cognitive Science
Torino, Italy

Outside Pre-Tenure Reviewer
Department of Mathematics and Computer Science
Colorado College
Colorado Springs, CO, 2014

Conference Chair
MAICS 2014
25th Modern AI and Cognitive Science Conference
Spokane, WA, April, 2014

Conference Co-Chair
Technology, Rhetoric, and Cultural Change: Walter J. Ong, S.J. in the Age of Google, Facebook
and Twitter
Spokane, WA, February, 2014

Program Committee
MAICS 2013,2012
24th, 23rd meetings of the Modern/Midwest AI and Cognitive Science Conference
New Albany, Cincinnati

Session Organizer: Language Model Research in Automatic Speech Recognition
SCIS-ISIS-2012
The 6th International Conference on Soft Computing and Intelligent Systems
The 13th International Symposium on Advanced Intelligent Systems
Kobe, Japan, November, 2012

Outside Promotion Reviewer
Department of Computer Science
St. Joseph's University
Philadelphia, PA, 2009

Reviewer
IEEE Transactions on Education
2008

Reviewer
SIGCSE 2003, 2204, 2005, 2006, 2007
34th, 35th, 36th, 37th, 38th Annual Technical Symposia on Computer Science Education
Reno, Norfolk, St. Louis, Houston, Covington.

Reviewer
*International Journal of Uncertainty, Fuzziness and Knowledge Based Systems: Special Issue on
Cyber Trust and Intelligent Systems*
World Scientific Publishing Co., Singapore
2005

Reviewer
ITICSE 2005, 2006
10th, 11th Annual Conference on Technology and Computer Science Education
Monte da Caparica, Portugal, Bologna, Italy

Reviewer
CCLI Program
National Science Foundation
Washington, D.C., 1999, 2000, 2001

Inland Northwest chapter of the ACM
Co-Chair, 1999-2005

Author's Chair
Northwest Conference on Small College Computing
Spokane, WA
1999

Books Editor
Computers and Society
1994-1998

Courses Taught

Technical Interest Advanced Courses

- Speech and Natural Language Processing
- Biological Metaphors in Computer Science: Genetic Algorithms and Neural Networks
- Artificial Intelligence
- Theory of Computation
- Applied Cryptography

General Advanced Courses

- Computer Graphics
- Organization of Programming Languages
- Operating Systems
- Database Management Systems
- Software Engineering and Group Design

Introductory Courses

- Introduction to Programming (C, C++, Python)
- Data Structures (C++)
- Object-Oriented and Event-Driven Programming (Java)
- Digital Logic

Social Implications of Computing (Graduate)

- Social Dynamics of Communication and Technology

Significant University Service

Phi Beta Kappa faculty co-representative

Gonzaga University

Co-led the effort to establish a Phi Beta Kappa chapter at Gonzaga University

2017-present

2003-2009

Chair, Committee to Rewrite Policy on Reappointment, Tenure, and Promotion

School of Engineering and Applied Science

Gonzaga University

2016-2018

American Association of University Professors (AAUP)

Executive Committee

Gonzaga University chapter

2014-present

ABET Accreditation Coordinator

Department of Computer Science

Directed ABET accreditation effort

2003-2014

Academic Council

Gonzaga University

2010-2013

Chair, Policy & Procedures Committee of the Academic Council

Gonzaga University

2010-2012

Chair, Department of Computer Science

Gonzaga University

2008-2012

Other Stuff

Non-Professional Interests

Cycling, running, skiing

Language study

Politics

Heh-Joon Shaolin Kuan, Shaolin Chuan-Fa
First Duan (first degree black belt) in full contact kickboxing
San Francisco, CA

Informal/Occasional Education/Training/Experience

On-line courses in mathematics and computing since 2014

Cryptography and Computer Security Summer Workshop
MIT, Cambridge, MA, 2001