

**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 systems 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)

Caroline Smith (Linguistics)

Charles Wooters (Semantic Machines, Berkeley)

William Croft (Linguistics)

Dissertation Title: Syllables and Concepts in Large Vocabulary Speech Recognition

### Temple University

M.S., Computer Science, 1990

Advisor: Judith Weiner (Computer Science)

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 motherese (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

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., MacWhinney, 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., Silber, N. (2016). Fidelity of Automatically Coded Family Speech of Mothers, Fathers, and 30 month-old Children with and without Hearing Loss. 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, 169<sup>th</sup> 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, 89<sup>th</sup> 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, 89<sup>th</sup> 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 7<sup>th</sup> International Conference on Soft Computing and Intelligent Systems and the 15<sup>th</sup> International Symposium on Advanced Intelligent Systems*, Kitakyushu, Japan, Dec., 2014.
- De Palma, P. (2014). Ongian Implications for Automatic Speech Recognition. Presentation given at Technology, Rhetoric, and Cultural Change: Walter J. Ong, S.J. in the Age of Google, Facebook and Twitter, 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 24<sup>th</sup> 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 23<sup>rd</sup> 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 23<sup>rd</sup> 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.

- 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.
- 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, Peter, Brown, Aaron. (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 *17<sup>th</sup> 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: Dushkin/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](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**

De Palma, Paul, Frank, C., Gladfelter, S., Holden, J. (2004). Cryptography and Computer Security in the Undergraduate Curriculum. *The 35<sup>th</sup> 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 33<sup>rd</sup> 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). The Software Wars. In P. De Palma (ed.), *Computers in Society 09/10*. Dubuque, IA : Dushkin/McGraw-Hill.

De Palma, Paul (2008). [http://when\\_is\\_enough\\_enough?.com](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. (2007). The Software Wars. In P. De Palma (ed.), *Computers in Society 08/09*. Dubuque, IA : Dushkin/McGraw-Hill.



- De Palma, Paul. (2006). The Software Wars. In P. De Palma (ed.), *Computers in Society 07/08*. Dubuque, IA : Dushkin/McGraw-Hill.
- De Palma, Paul. (2004). Why Women Avoid Computer Science. In P. De Palma (ed.), *Computers in Society 05/06*. Dubuque, IA: Dushkin/McGraw-Hill.
- De Palma, Paul. (2004). [http://when\\_is\\_enough\\_enough?.com](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). Why Women Avoid Computer Science. In P. De Palma (ed.), *Computers in Society 04/05*. Guilford, CT: Dushkin/McGraw-Hill.
- De Palma, Paul. (2003). [http://when\\_is\\_enough\\_enough?.com](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](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](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](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](http://www.when_is_enough_enough?.com). In K. Schellenberg (ed.), *Computers in Society 00/01* ed., Guilford, CT: Dushkin/McGraw Hill.

## **Undergraduate Research Directed/Co-Directed**

- Krantz, J., Dulin, M. (2017). Probabilistic Syllabification of English Words. Spokane Intercollegiate Research Conference, Gonzaga University, April 21-22. Best Paper (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)  
Lauren Joplin GA/Book-Embedding Video: <http://magazine.gonzaga.edu/2013/study-break-video-series-lauren-joplin>.
- 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 American (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 Kimberly (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).

## **M.A. Theses Mentored**

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.

## **Grants**

### **I. External**

VanDam, M. (PI), Washing 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, UC, Merced, \$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  
2000-2006, 2010-2013, 2015-2018

Gonzaga University Research Council  
(some with Sara Ganzerli and/or Shannon Overbay)  
Undergraduate research assistant support, funding to develop a cryptography course  
\$13,150

## **Professional Memberships**

Linguistics Society of America (LSA)  
Association for Computing Machinery (ACM)

## Professional Service

### Reviewer

CogSci 2016, 2015, 2014, 2013, 2012, 2011

38<sup>th</sup>, 37<sup>th</sup>, 36<sup>th</sup>, 35<sup>th</sup>, 34<sup>th</sup>, 33<sup>rd</sup> meetings of the Cognitive Science Society

Philadelphia, Pasadena, Quebec City, Berlin, Sapporo, Boston

### Reviewer

[EAP\\_COGSCI 2015](#)

The EuroAsianPacific Joint Conference on Cognitive Science:

4<sup>th</sup> European conference on Cognitive science &

10<sup>th</sup> 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

25<sup>th</sup> 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

### Reviewer

87<sup>th</sup> Annual Meeting of the Linguistics Society of America

Boston, January, 2013

### Program Committee

MAICS 2013,2012

24<sup>th</sup>, 23<sup>rd</sup> 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  
34<sup>th</sup>, 35<sup>th</sup>, 36<sup>th</sup>, 37<sup>th</sup>, 38<sup>th</sup> 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  
10<sup>th</sup>, 11<sup>th</sup> 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 Administrative Duties/Service**

Chair, Committee to Rewrite Policy on Reappointment, Tenure, and Promotion  
School of Engineering and Applied Science  
Gonzaga University  
2016-2017

American Association of University Professors (AAUP)  
Executive Committee  
Gonzaga University chapter  
2014-present

ABET 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

Phi Beta Kappa faculty co-representative  
Gonzaga University  
Co-led the effort to establish a Phi Beta Kappa chapter at Gonzaga University  
2003-2009

## **Other Stuff**

### **I. 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

### **II. Non-Professional/Occasional Education/Training/Experience**

On-line courses in mathematics and computing

Cryptography and Computer Security Workshop  
MIT, Cambridge