

Jevin Darwin West

PhD Candidate
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Education

2005 – PhD Candidate, Mathematical Biology, University of Washington, Seattle, WA
 Advisors: Carl Bergstrom and Ben Kerr
 2000 – 2004 M.S., Biology (theoretical emphasis), Utah State University, Logan, UT
 Advisors: Keith Mott and David Peak
 1996 – 2000 B.S., Biology, Chemistry m., Utah State University, Logan, UT

Research Areas

Complex Systems, Networks, Self-Organization, Information Theory
 Evolutionary Ecology, Physiology, Mathematical Biology
 Bibliometrics, Economics of Publishing, History and Philosophy of Science

Honors and Awards

+ WRF-Hall Fellowship (2010), Sargent Award (2008), ARCS Fellowship (2005 – 2008)
 + Huckabay Fellowship (2006 – 2007), UW Top Scholar Award (2005 – 2006)
 + Vice President for Research Fellowship (2000 – 2001), URCO Undergraduate Research Award (2000)
 + Presidential Scholarship ('96 – 2000), Outstanding Student of Year Award, College of Engineering ('98)
 + Columbia/HCA Foundation Scholarship ('96 – 2000), Student Athlete Award ('98 – 2000)
 + Valedictorian, Hillcrest High School ('96), National Exchange Club Youth of Year Scholarship ('96)

Publications**Big Macs and Eigenfactor Scores: Don't Let Correlation Coefficients Fool You (2009)**

J.D. West, T.C. Bergstrom, C.T. Bergstrom, *J. Am. Soc. for Info. Sci. & Tech.* (submitted)

Coevolutionary cycling of host sociality and pathogen virulence in contact networks (2009)

F. Prado, A. Sheih, J.D. West, B. Kerr, *Journal of Theoretical Biology*. **261**: 561-569

The Eigenfactor™ Metrics: a network approach to assessing scholarly journals (2010)

J.D. West, T.C. Bergstrom, C.T. Bergstrom, *College and Research Libraries Journal*. (May 2010)

The Eigenfactor™ Metrics: How does the *Journal of Biological Chemistry* stack up? (2009)

J.D. West, M. Stefaner, C.T. Bergstrom, *Am. Soc. for Biochem. & Mol. Biology*. April 2009: 20-21

Assessing Citations with the Eigenfactor™ Metrics (2008)

C.T. Bergstrom, J.D. West, *Neurology*. **71**: 1850 - 1851

The Eigenfactor™ Metrics (2008)

C.T. Bergstrom, J.D. West, M.A. Wiseman, *Journal of Neuroscience*. **28**: 11433 - 11434

Differences in Impact Factor across fields and over time (2008)

B.M. Althouse, J.D. West, T.C. Bergstrom, C.T. Bergstrom, *J. Am. Soc. for Info. Sci. & Tech.* **60**(1): 27-34

Eigenfactor – The Google Approach to Bibliometrics (2008)

J.D. West, *FrontMatter*, Allen Press

Bacteriophages: models for exploring basic principles of ecology (2008)

B. Kerr, J.D. West, B.J.M. Bohannan, (Chpt 2, p. 31 – 63) *Bacteriophage Ecology: Population Growth, Evolution, and Impact of Bacterial Viruses*. S.T. Abedon (ed), University Press, Cambridge, U.K.

Dynamics of stomatal patches for a single surface of *Xanthium strumarium* L. leaves... (2005)

J.D. West, D. Peak, J. Peterson, K.A. Mott, *Plant, Cell & Environment*. **28**: 633-641

Evidence for complex, collective dynamics and emergent, distributed computation... (2004)

D. Peak, J.D. West, S.M. Messinger, K.A. Mott, *PNAS*. **101**: 918-922

Comparing the dynamics of stomatal networks to the problem-solving dynamics... (2004)

J.D. West, D. Peak, K.A. Mott, S.M. Messinger, *Proc. of the Int. Conf. on Complex Systems, ICCS2004*

Investigations into the spatial and temporal dynamics of stomatal networks... (2004)

Invited Talks

- + International Workshop on "What is Evolution?" Kyoto University, Japan (Oct. 17, 2009)
- + Department of Physics, Umea University, Sweden (Oct. 2, 2009)
- + ALPSP International Conference, Oxford, UK (Sept. 10, 2009)
- + Council of Science Editors Annual Meeting, Pittsburgh, PA (May 3, 2009)
- + Digital Research Symposium, Portland State University (April 29, 2009)
- + BioOne, Washington, DC (April 17, 2009)
- + University of California, Los Angeles (Feb. 11, 2009)
- + National Inst. of Informatics & National Inst. for Materials Science, Tokyo, Japan (Nov. 25, 2008)
- + Yale Library and Faculty, Yale University (Nov. 3, 2008)
- + Center for Digital Research and Scholarship, Columbia University (Oct. 30, 2008)
- + Inst. of Economic Research & Yukawa Inst. of Theoretical Physics, Kyoto, Japan (Oct. 21, 2008)
- + Library Assessment, University of Washington, Seattle, WA
- + American Library Association Annual Conference, Anaheim, CA (June 29, 2008)
- + SLA International Conference, Seattle, WA (June 16, 2008)
- + Council of Science Editors Annual Meeting, Vancouver, B.C. (May 19, 2008)
- + HighWire Press, Stanford University (May 6, 2008)
- + University of California, Los Angeles (May 5, 2008)
- + Emerging Trends in Scholarly Publishing, National Press Club, Washington, D.C. (April 17, 2008)
- + National Academy of Sciences, Washington, D.C. (March 18, 2008)
- + European Science Foundation, University of Granada, Spain (November 19, 2007)
- + 29th Annual ARCS Luncheon, Westin Hotel, Seattle, WA (Nov. 13, 2007)
- + ARCS Auction Dinner, Conibear Shellhouse, University of Washington, Seattle, WA
- + Berkman Center for Internet & Society, Harvard University, Cambridge, MA (May 4, 2006)
- + Long Lab, Department of Plant Biology, University of Illinois, Champaign-Urbana, IL (March 2005)

Other Talks

- + USU Department of Biology (Nov. 9, 2004)
- + International Conference on Complex Systems, Boston MA (May 17, 2004)

Poster presentations

- + Gordon Research Conference (Microbial Population Biology), Proctor Academy, NH
 - (1) J. Nahum, B.M Althouse, J.D. West, C. Ofria, B. Kerr, *Best Poster Award* (July 20 - 24, 2009)
 - (2) J.D. West, J. Nahum, C. Levy, B. Kerr (July 22-27, 2007)
- + Scholarship of Teaching and Learning, University of Washington, Seattle, WA
J.D. West, C.T. Bergstrom, B. Kerr (April 2007)
- + Evolutionary Biology in the Northwest (EVO-WIBO), Port Townsend, WA
J.D. West, A. Dean, C. Neuhauser, B. Bohannan, B. Kerr (April 2006)
- + Symposium on Plant Neurobiology, Universitatbonn, Florence, Italy
J.D. West, D. Peak, K.A. Mott (May 17-20, 2005)
- + American Association for the Advancement of Science, Pacific Division
J.D. West, S.M. Messinger, D. Peak, K.A. Mott (June 2004)
- + Int. Conf. on Complex Systems, New England Complex Systems Institute, Boston, MA
J.D. West, S.M. Messinger, D. Peak, K.A. Mott, *Best Poster Award - USU Dept. of Biology* (May 2004)
- + Center for Nonlinear Studies, Los Alamos National Laboratory, Santa Fe, NM
J.D. West, D. Peak, K.A. Mott, S.M. Messinger (May 2003)
- + Utah State University Student Research Symposium, Logan, UT
J.D. West, D. Peak, K.A. Mott (April 2001)

Other conferences & meetings

- + Lenski/Ofria Lab Visit, Michigan State University, East Lansing, MI (June 24-28, 2008)
- + Mathematical Modeling of Infectious Diseases, Fred Hutchinson Cancer Res. Ctr, Seattle, WA (Feb. 13, 2008)
- + Models of Emergent Behavior in Complex Adaptive Systems, Santa Fe Institute, NM (Dec. 6-9, 2007)

- + Evolution of Cooperation in Microbes, Princeton University, Park City, UT (Aug. 23-28, 2006)
- + Identity Mash-UP, Berkman Ctr. for Internet & Society, Harvard Law School, Boston, MA (June 19-21, 2006)

Acknowledgements

- + M. Rosvall, C.T. Bergstrom (2009) Mapping change in large networks. *PLoS One* (submitted)
- + D. Hewitt (2009) Maintaining the competitiveness of the American Fisheries... (submitted)
- + F. Prado, T. Billo, B. Kerr (2008) Introgression of sexually... *Evolutionary Ecology Research* **11**: 1235-1250
- + M. Rosvall, C.T. Bergstrom (2008) Maps of random walks on complex networks... *PNAS* **105**: 1118-1123
- + C.T. Bergstrom (2007) Eigenfactor: measuring the value & prestige of scholarly journals. *C&RL News* **68** (5)
- + C.T. Bergstrom, M. Lipsitch (2006) Evolution lessons from infectious diseases. *Geotimes* March 2006
- + P.J. Franks, T.N. Buckley, J.C. Shope, K.A. Mott (2001) Guard cell volume... *Plant Physiology* **125**: 1577-1584

Teaching

Teaching Assistant

- BIOL 354 Foundations in Evolution and Systematics, UW (Spring 2009)
- BIOL 462 Advanced Animal Physiology, UW (Fall 2009 & Fall 2009)
- BIOL 481 Experimental Evolutionary Ecology, UW (Fall 2006)
- BIOL 4400 Plant Physiology, USU (Fall 2004 & Fall 2003)
- BIOL 2010 Human Anatomy, USU (Spring 2004 & Spring 2003)

Guest Lectures

- BIOL 180 Biodiversity Field Trips (Fall 2005 – Summer 2009)
- BIS 232 Visualizing Quantitative Data, UW Bothell (Feb. 25, 2009)
- BIOL 113 Diversity in Learning (May 22, 2008)
- BIOL 492 The Teaching of Biology, UW (Spring 2007)
- BIOL 429 Models in Biology, UW (Dec. 6, '06)
- BIOL 510 Seminar in Mathematical Biology, UW (May 11, '06)
- HS AP Cal Elizabeth Mott's Honors Calculus, Logan High School (May 5, '04)

Curriculum Development

- Summer Teaching Institute, Seattle School District (Summer 2009)
- Howard Hughes RA for developing Experimental Evolutionary Ecology (Summer 2006)

Academic Outreach and Service

- Reviewer: *PLoS Comp. Biology*, *Harvard Rev. of Psych*, *Information Proc. & Manag*, *Faculty 1000*
- Greenhouse Tour Guide (W. '06 – present), Medicinal Herb Garden Docent (F. '06 – present)
- Mammal Day Volunteer, Burke Museum (Aug. 5, 2006), Huckabay Panel Member (Winter 2007)
- CIDR Conference (F. '06, F. '07), UW Center for Learning & Undergrad Enrichment (W. '08)
- Guest speaker for Seattle book club, "The Beak of the Finch" (Oct. 20, '05)
- FOSEP (Forum on Science, Ethics and Policy) ('05 – '07), GPSS Senator ('05 – '06)
- Graduate Student Symposium, UW Department of Biology (Nov. 17, '06)

Collaborations

- Ted Bergstrom, University of California, Santa Barbara, Martin Rosvall, Umea University, Sweden
- Johan Bollen, Indiana University, Michael Jensen, Harvard University
- Charles Ofria, Michigan State University, John Burns, JSTOR, Princeton University