

Jeremy Gray

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Relevant Experience

- **Course Instructor.** University of Toronto. EEB225H1S - Biostatistics 2015
 - Lectured 0.5 of a course, biostatistics, for second year EEB majors. Developed new R labs, and updated the lectures
- **Postdoctoral Fellow.** University of Toronto. May 2012-Present. Ecology and Evolutionary Biology
 - Major wet lab methods - CRISPR/Cas9, Microinjection, Library construction, Microscopy
 - Major computational methods - R, Python, MySQL, Next-Gen Sequence Analysis, GWAS/QTL
- **PhD in Biology.** University of Auckland, March 2007 - January 2011. “Testing the major theories concerning the evolution of sex using experimental evolution”
 - Major wet lab methods - Microbiology, Cloning, Chemostats, Continuous Culture
 - Major computational methods - R, Mathematica, Next-Gen Sequence Analysis, Population genetics
- **Lab Technician.** Institute of Environmental Science and Research Ltd (ESR). “Horizontal Gene Transfer in the New Zealand Environment”. June 2005-June 2006
 - Soil Microbial Ecology, Agricultural Ecology.
- **BSc (Hons I) in Genetics.** University of Otago, 2001-2004 “PRP8 inteins of the fungi of the genus *Aspergillus*”
 - Major wet lab methods - RT-PCR, diagnostic development, Phylogenetics

Work History

- **Rena Oil Spill Wildlife Response Team.** Maritime New Zealand. October 2011-February 2012.
- **Research Associate.** University of Auckland. July 2011-September 2011. Assisting in writing and editing publications related to PhD.
- **Door Outreach Team.** Greenpeace New Zealand. October 2006-February 2007.
- **Assistant Research Fellow.** Department of Biochemistry, University of Otago “Completion of the design and testing of a molecular diagnostic test for *Aspergillus*”. January 2005-Feb 2005
- **Summer Student.** Department of Biochemistry, University of Otago. “Analysis of the PRP8 inteins of the genus *Aspergillus*, with respect to a diagnostic assay”. November 2004 - January 2005
- **Summer Student.** Allan Wilson Centre for Molecular Ecology and Evolution at Massey University. “Origin and evolution of asexuality in New Zealand endemic stick insects”. November 2003 - January 2004

Publications

- **Gray JC**, Cutter AD. 2014. Mainstreaming *Caenorhabditis elegans* in experimental evolution. **Proceedings of the Royal Society B: Biological Sciences**. 281(1778)
- **Gray J**, Goddard M. 2012. Gene-flow between niches facilitates local adaptation in sexual populations. **Ecology Letters** 15(9):955-962
- **Gray J**, Goddard M. 2012. Sex enhances adaptation by unlinking beneficial from detrimental mutations in experimental yeast populations. **BMC Evolutionary Biology** 12:43
- Butler MI, **Gray J**, Goodwin TJ, Poulter RT. 2006. The distribution and evolutionary history of the PRP8 intein. **BMC Evolutionary Biology** 6(1):42

Teaching Experience

- Laboratory Tutor. University of Auckland. 2010-2011 BIOL101
- Laboratory Demonstrator. University of Auckland. 2008-2011 BIOL101, BIOL106, BIOL 202, BIOL203, BIOL210, BIOL351
- Laboratory Demonstrator. University of Otago. 2004 MDCN2, BIOC111
- Hall of Residence Tutor. University College. (UniCol) 2004 BIOC111

Awards, Memberships and Positions

- Software Carpentry Instructor. 2015.
- University of Auckland Doctoral Scholarship. 2007-2011.
- Graduate Student Representative, Research Advisory Board, School of Biological Sciences, University of Auckland. 2008-2010 (two terms).
- Faculty of Science Postgraduate Student/Staff Consultative Committee, Biological Sciences representative, University of Auckland. 2008-2009.
- Epsom delegate, Green Party of Aotearoa New Zealand list ranking conference, 2011.