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EDUCATION AND TRAINING

University of Maryland College Park – Department of Biology. Postdoctoral Research Fellow. May 2012 – 2016. Supervised by Dr. Gerald Wilkinson.

University of North Carolina at Chapel Hill – Department of Biology PhD Graduate Program. September 2006 – May 2012. Advisor Dr. Corbin D. Jones.

Macalester College, St. Paul, MN – B.A. *Cum laude* May 2005

PUBLICATIONS

Google Scholar:

<http://scholar.google.com/citations?user=Y7Ii9qoAAAAJ&hl=en&oi=ao>

Research Gate:

https://www.researchgate.net/profile/Josephine_Reinhardt/info

ORCID:

<http://orcid.org/0000-0002-1345-2976>

Baker RH, Narechania A, Robb DeSalle, Johns PM, **Reinhardt JA**, Wilkinson GS. Spermatogenesis drives rapid gene creation and masculinization of the X chromosome in stalk-eyed flies (Diopsidae). *Genome Biology and Evolution*. 2016; 8(3): 896-914. <http://gbe.oxfordjournals.org/content/early/2016/03/06/gbe.evw043.full.pdf+html>

Reinhardt JA, Brand CL, Paczolt KA, Johns PM, Baker RH, Wilkinson GS. Meiotic drive impacts expression and evolution of x-linked genes in stalk-eyed flies. *PLoS Genetics*. 2014. <http://dx.doi.org/10.1371/journal.pgen.1004362>

Reinhardt JA, Kolaczowski B, Jones CD, Begun DJ, Kern AD. Parallel Geographic Variation in *Drosophila melanogaster*. *Genetics* 2014 <http://www.genetics.org/content/197/1/361.full.pdf>

Reinhardt JA, Wanjiru BM, Brant AT, Saelao P, Begun DJ, and Jones CD. De Novo ORFs in *Drosophila* Are Important to Organismal Fitness and Evolved Rapidly from Previously Non-coding Sequences. *PLoS Genetics*. 2013; 9(10): e1003860. <http://dx.doi.org/10.1371/journal.pgen.1003860>

Reinhardt JA and Jones CD. Two Rapidly Evolving Genes Contribute to Male Fitness in *Drosophila*. *Journal of Molecular Evolution*. 2013; 77(5-6), 246-259.
<http://dx.doi.org/10.1007/s00239-013-9594-8>

Lee YC and **Reinhardt JA**. Widespread polymorphism in the positions of stop codons in *Drosophila melanogaster*. *Genome Biology and Evolution*. 2012; 4(4), 533-549.
<http://gbe.oxfordjournals.org/content/4/4/533.full.pdf>

Reinhardt JA, Baltrus DA, Nishimura MT, Jeck WR, Jones CD, Dangl JL. *De novo* assembly using low coverage short read sequence data from the rice pathogen *Pseudomonas syringae pv. Oryzae*. *Genome Research*. Feb. 2009, 19(2):294-305.
<http://genome.cshlp.org/content/19/2/294.full.pdf>

Jeck WR, **Reinhardt JA**, Baltrus DA, Hickenbotham MT, Magrini V, Mardis ER, Dangl JL, Jones CD. Extending assembly of short DNA sequences to handle error. *Bioinformatics* Sept. 24 2007.
<http://bioinformatics.oxfordjournals.org/content/23/21/2942.full.pdf>

AWARDS AND ASSOCIATIONS

IGTRCN Peer-to-Peer Training Fellowship: Developing CRISPRs in the stalk-eyed fly, *Teleopsis dalmanni*. Awarded October 2014.

Ruth L. Kirschstein National Research Service Award Postdoctoral Fellowship. Spring 2013-Present

Ross and Charlotte Johnson Family Dissertation Fellow: UNC Royster Society of Fellows. Fall 2011- Spring 2012.

Genetics Society of America, Member. October 2006 – Present.

Society for the Study of Evolution, Member. October 2006 – Present.

UNC University Merit Assistantship. Sept 2006-Sept 2007.

Howard Hughes Medical Institute (HHMI) summer research scholar, Summer 2003 and 2004.

National Merit Scholarship, 2001-2005.

ORAL PRESENTATIONS

Delegate. Gordon Conference – Ecological & Evolutionary Genomics. University of New England, Biddeford ME. July 12-17, 2015

Invited speaker. *Teleopsis dalmanni* the genomic model diopsid. *International Congress of Dipterology (ICD8)*. Potsdam, Germany. August 10-15, 2014.

Lightning Talk: Widespread impacts of a stable sex-ratio polymorphism on the X chromosome of Stalk-eyed flies. *Evolution*. Raleigh, NC. June 20-24, 2014.

Invited speaker. Gene evolution and phenotypic adaptation symposium. *Society for molecular biology and evolution annual meeting*. Kyoto, Japan. July 26-30, 2011.

De novo genes in *Drosophila melanogaster* are involved in male reproduction. *Evolution*. Portland, OR. June 25-29, 2010.

Coding Length Polymorphisms in *Drosophila melanogaster*. *South Eastern Population Ecology and Evolutionary Genetics Conference (SEPEEG)*. Dahlonoga, GA. October 16-18 2009.

Getting something from nothing: new functions for *Drosophila de novo* genes. *Drosophila Research Conference*. Genetics Society of America. Chicago, IL. March 4-8 2009.

Evolutionary Insights from Short-Read Sequencing of *Pseudomonas syringae* Pathovars. *Evolution*. Society for the Study of Evolution. University of Minnesota, Minneapolis, MN. June 20, 2008

PROFESSIONAL EXPERIENCE

Teaching Assistant, Ecology and Evolutionary Biology, University of North Carolina at Chapel Hill, Fall 2008 and Fall 2007.

Teaching Assistant, Genetics and Molecular Biology, University of North Carolina at Chapel Hill, Fall 2006.

Research Technician, 3M Corporation, Biotechnology division. Dr. Patrick Campbell. Spring 2005 – 2006.