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BRIAN JOHN DUISTERMARS

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EDUCATION

2005 B.S. Cell, molecular, developmental biology, University of California, Riverside (UCR)

CURRENT ACADEMIC PURSUITS

2005-present Ph.D. Molecular, cell and integrative physiology (MCIP), University of California, Los Angeles (UCLA)

HONORS, AWARDS and PROFESSIONAL MEMBERSHIPS

2008 Charles E. and Sue K. Young outstanding graduate student award

2008 MCIP annual retreat, best oral presentation by a graduate student

2007-2008 International Society for Neuroethology, student member

2006-2007 Society for Neuroscience, student member

2001-2005 Major Charles Sherman Hoyt, four year academic scholarship

RESEARCH GRANTS

2008-2009 Hannelore and Michael J. Gresser graduate doctorate fellowship in life sciences

2006-2007 NIH NRSA predoctoral fellowship

2004 UCR Biology department research travel award

2003 UCR Biology department student mini grant

RESEARCH EXPERIENCE

2006-present UCLA Department of Physiological Science, Dr. Frye, exploring the cross-modal influences of visual and olfactory sensory signals on the motor control of insect flight and genetically manipulating neural circuits responsible for rapid sensory-motor integration

2006 UCLA Department of Biological Chemistry, Dr. Zipursky, rotation project: spatial and temporal control of Gal4 activated gene expression

2006 UCLA Department of Neurobiology, Dr. Houser, rotation project: GABA receptor sub-unit plasticity in an alpha-4 knockout mouse

2005 UCLA Department of Physiological Science, Dr. Frye, rotation project: acute spatial, temporal, and contrast sensitivity of translational optomotor responses in *Drosophila*

2003-2005 UCR Department of Biochemistry, Dr. Dugaiczky, phylogenetic comparisons of primates using Alu Yb8 repeats

2003-2005 UCR Department of Biology, Dr. Haimo, effects of steroids on intracellular signaling in zebrafish melanophores

2004 Marine Biological Laboratory, Dr. Haimo, summer undergraduate researcher

2004 UCR Department of Biochemistry, Dr. Close, genetic analysis of drought tolerance in cowpea

TEACHING EXPERIENCE

2007 & 2008 UCLA - Physiological Science 165: Comparative animal physiology, teaching assistant

2006 Marine Biological Laboratory - Neural systems & behavior, teaching assistant

PUBLICATIONS

7. Duistermars BJ and Frye, MA (*In Press*) Visually mediated odor tracking during flight in *Drosophila*. *Journal of Visualized Experiments*

6. Duistermars BJ and Frye, MA (*In Press*) A magnetic tether system to navigate visual and olfactory mediated flight control in *Drosophila*. *Journal of Visualized Experiments*

5. Theobald JC, Duistermars BJ, Ringach DL, Frye MA (2008) Flies see second order motion. *Curr. Biol.* 18(11):464-465

4. Duistermars BJ and Frye, MA (2008) Cross-modal visual input for odor tracking during fly flight. *Curr. Biol.* 18:270-275

3. Duistermars BJ, Chow DM, Condro M, Frye MA (2007) The spatial, temporal and contrast properties of expansion and rotation flight optomotor responses in *Drosophila*. *J. Exp. Biol.* 210: 3218-3227

2. Duistermars BJ, Reiser MB, Zhu Y, Frye MA (2007) Dynamic properties of large-field and small-field optomotor flight responses in *Drosophila*. *J. Comp. Physiol.* 193: 787-99

1. Gibbons R, Dugaiczuk LJ, Girke T, Duistermars BJ, Zielinski R, Dugaiczuk A (2004) Distinguishing humans from great apes with AluYb8 repeats. *J. Mol. Biol.* 339: 721-729

PROFESSIONAL MEETINGS

- 2008 Annual Biomedical Research Conference for Minority Students, Orlando, FL. Exhibitor/recruiter for UCLA life sciences and ACCESS Ph.D. program
- 2008 Dynamics of Neural Microcircuits Symposium, UCLA. Poster title: Second-order motion perception in *Drosophila*.
- 2007 Annual Biomedical Research Conference for Minority Students, Austin, TX. Exhibitor/recruiter for UCLA life sciences and ACCESS program/ undergraduate poster session judge
- 2007 International Society for Neuroethology, Vancouver, Canada
- 2006 Society for Neuroscience, Atlanta, GA. Poster title: Acute spatial, temporal, and contrast sensitivity of translational optomotor responses in *Drosophila*.

INVITED TALKS

- 2008 UCLA life sciences recruitment seminar, University of Puerto Rico, Cayey; University of Puerto Rico, Mayaguez; Universidad Metropolitana, San Juan, Puerto Rico
- 2008 MCIP annual retreat
- 2007 MCIP student seminar
- 2007 UCLA ACCESS recruitment seminar

MENTORSHIP

- Ivan Rodriguez-Pinto (2006-present): Undergraduate CARE scholar: Quantification of odor mediated search behavior in wild type flies and classic memory mutants.
- Rachel Care (2008-present): Optomotor analysis of *dscam2* mutant *Drosophila*.