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## Education and Training

Postdoctoral Scholar	University of California, Los Angeles	2007–present
NSF, Postdoctoral Fellow	Lund University	2004–2006
PhD Neurobiology and Behavior	University of Washington	2004
MS Zoology	University of Idaho	1997
BS Zoology	University of Wisconsin, Madison	1991

## Honors and Awards and Funding

Brain Research Institute/Semel Postdoctoral Scholars Travel Award	2009
To cover travel expenses related to attending the 2009 SfN meeting	
National Science Foundation Teaching Fellow (FIRST IV)	2009–2010
Faculty Institute for Reforming Science Teaching IV	
<b>Grass Fellow</b> , Grass Lab, Marine Biological Laboratories, Woods Hole, MA	2006
National Science Foundation International Research Fellowship Program	2004–2006
<b>NSF Postdoctoral Fellow</b> , with Dr. Eric Warrant, Lund University, Sweden (Salary, research, and travel budget, <b>\$144,274</b> , Award #0401906)	
Department of the Navy, STTR Phase I grant (Salary)	2002–2003
Society for Integrative and Comparative Biology, Grants in Aid Of Research	2002
<b>1<sup>st</sup> Place Student Poster Prize</b> , International Conference on Invertebrate Vision	2001
National Institutes of Health, Graduate Neuroscience Training Grant (Salary and research budget, University wide competition)	1999–2002
Crary Award for Excellence in Teaching, University of Washington	1998

## Publications

### Peer-reviewed Papers.

\***Theobald, J. C., Tavassoli, A., Frye, M. A., and Ringach, D. L.** Fruit flies solve the aperture problem. *Under review at J Neurosci*, November 2009.

**Theobald, J. C., Ringach, D. L., and Frye, M. A.** Dynamics of optomotor responses in *Drosophila* to perturbations in optic flow. *In press at J Exp Biol*.

**Theobald, J. C., Ringach, D. L., and Frye, M. A.** Visual stabilization dynamics are enhanced by standing flight velocity. *Biol Letters*, published online before print December 2, 2009, doi:10.1098/rsbl.2009.0845.

**Theobald, J. C., Warrant, E. J., and O'Carroll, D. C.** Wide-field motion tuning in nocturnal hawkmoths. *Proc Roy Soc Lond B*, published online before print November 11, 2009, doi:10.1098/rspb.2009.1677.

**Theobald, J. C., Duistermars, B. J., Ringach, D. L., and Frye, M. A.** Flies see second-order motion. *Curr Biol*, 18:R64–R65 (2008).

**Theobald, J. C., Coates, M. M., Wcislo, W. T., and Warrant, E. J.** Flight performance in night-flying sweat bees suffers at low light levels. **Featured as short report.** *J Exp Biol*, 210:4034–4042 (2007).

**Theobald, J.C., Greiner, B., Wcislo, W., and Warrant, E.** Visual summation in night-flying sweat bees: a theoretical study. *Vision Res*, 46(14):2298–309 (2006).

**Kelber, A., Warrant, E. J., Pfaff, M., Wallén, R., Theobald, J. C., Wcislo, W. T., and Raguso, R. A.** Light intensity limits foraging activity in nocturnal and crepuscular bees. *Behav Ecol*, 17:63–72 (2006).

**Coates, M., Garm, A., Theobald, J.C., Thompson, S., and Nilsson, D.** The spectral sensitivity of the lens eyes of a box jellyfish, *Tripedalia cystophora* (Conant). *J Exp Biol*, 209:3758–3765 (2006).

#### Peer-reviewed Conference Papers.

**Hanein, Y., Lang, U., Theobald, J., Wyeth, R., Daniel, T., Willows, A. O. D., Denton, D. D., and Böhringer, K. F.** Intracellular neuronal recording with high aspect ratio MEMS probes. *The 11th International Conference on Solid-State Sensors and Actuators (Transducers' 01), Munich, Germany*, pages 386–389 (2001).

*\*Denotes manuscript in prep, submitted, or under review, copies available upon request.*

#### Review Articles.

**Theobald, J. C. and Frye, M. A.** Animal Behavior: Flying back to front. *Curr Biol*, 18(4):R169–R170 (2008).

**Meeting Abstracts**—most recent listed, full list (11 additional) can be found on homepage <http://jamiet.bol.ucla.edu/publications.html>.

**O'Carroll, D. C., Theobald, J. C., and Warrant, E. J.** Spatiotemporal aliasing and the neural delay of motion detectors in nocturnal hawkmoths. *Australian Neuroscience Society Annual Meeting* (2010).

**Theobald, J. C., Ringach, D. L., and Frye, M. A.** White noise analysis of optic flow stabilization in fruit flies. *Society for Neuroscience Annual Meeting* (2009).

**Theobald, J. C. and Frye, M. A.** Behavioral responses of fruit flies to second-order motion. In *Second International Conference on Invertebrate Vision Abstracts*, (2008).

#### Invited Talks

Department of Physiological Sciences Annual Retreat, UCLA (one of two invited postdoctoral speakers)	2009
Neuromorphic Engineering Student Society, California Institute of Technology	2008
Dr. Lars Chittka's group, Queen Mary University of London	2007

**Teaching Experience**

Course designer, lecturer, University of California, Los Angeles (UCLA)	2010
Introduction to Eye Evolution (PhySci 174, Winter)	
Delivered 4 hours lecture, UCLA	2009
Comparative Animal Physiology (PhySci 165: Spring (3hrs), Fall (1hr))	
Course Designer/Leader, University of Washington (UW)	2002
Neurobiology Undergraduate Program Journal Club (Topic: Sensory Biology)	
Teaching Assistant, Dept. of Zoology UW	1998
Physiology (lab instructor, some lectures)	
Adjunct Teaching Faculty, Biology Undergraduate Program, UW	1996–1997
Intro Bio: Development and Physiology (lab instructor)	
Intro Bio: Ecology, Evolution, and Botany (lab instructor)	
Teaching Assistant, University of Idaho	1993–1996
Invertebrate Zoology	
Zoology (Responsible for designing and planning labs and exams)	

**Professional Memberships and Activities**

Member, J.B. Johnston Club (JBJC)	2009
Attendee 2009 Karger Workshop & JBJC annual meeting	
Member, Society for Neuroscience (SfN)	2009
Poster presentation, SfN annual meeting 2009	
Referee, Journal of Neuroscience	2008–
Referee, Journal of Experimental Biology	2007–
Visiting Scientist, Smithsonian Tropical Research Institute, Barro Colorado Island, Bocas del Toro	various 2004–2006
Member, International Society for Neuroethology (ISN)	2004–present
Poster presentation, 7 <sup>th</sup> Congress of ISN, Denmark, 2004	
Member, Society for Integrative and Comparative Biology (SICB)	1997, 2000–present
Divisions of Invertebrate Zoology (DIZ), Animal Behavior (DAB)	
Biochemistry and Comparative Physiology (DBCP), and Neurobiology (DNB)	
Presenter at SICB annual meeting '01, '02, '03, '04, '05, '06, '08	
Business meeting participant, SICB-Division of Neurobiology, '03, '04	

**Reference Letters**

Dr. Mark Frye — Postdoctoral Advisor  
 Howard Hughes Medical Institute  
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 University of California, Los Angeles  
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Dr. Thomas L. Daniel — PhD Advisor  
 Joan and Richard Komen Endowed Chair  
 Professor, Dept. of Biology  
 University of Washington  
 Seattle, WA, USA  
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**Reference Letters (cont'd)**

Dr. Eric J. Warrant — Postdoctoral Advisor  
Lund Vision Group,  
Professor, Dept. of Cell and Organism Biology  
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Dr. Dario Ringach — Collaborator  
David Geffen School of Medicine  
Professor, Dept. of Neurobiology  
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**Additional References**

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Dr. Carl T. Bergstrom  
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**Teaching References**

Dr. Robert Steiner (Course : Development and Physiology)  
Professor, Dept. of Obstetrics and Gynecology  
University of Washington  
Seattle, WA  
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Dr. Alison H. Rudkin (Lab Coordinator: Development and Physiology)  
Dept. of Physiology, Dartmouth Medical School  
Dartmouth University  
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