

Curriculum Vitae
Stephen V. Shepherd

Neuroscience Institute
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EDUCATION

2002-2008 Ph.D., Neurobiology, Duke University
Dissertation: Neuroethology of Social Attention in Primates
Advisor: Michael L. Platt
1996-2000 B.S., Biology (Computational & Neural Systems), Caltech

POSITIONS

2008- Postdoctoral Researcher, Neuroscience Institute, Princeton University
(Advisor: A.A. Ghazanfar)
2003-2008 Graduate Student, Department of Neurobiology, Duke University (Advisor:
M.L. Platt Laboratory)
2000-2002 Research Assistant, Department of Biology, Caltech (Advisor: J.M. Allman)
1997-1998 Technical Writer, Intelligent Fiber Optic Systems (IFOS), Los Altos, CA
1995-1996 Volunteer, Wildlife Education & Rehabilitation Center, Morgan Hill, CA

HONORS

1999 Summer Undergraduate Research Fellow, S. Shimojo Lab, Caltech
1996 Mardi Gras Ambassador Scholarship, Morgan Hill Mardi Gras
1996 Rotary Scholarship, Morgan Hill Rotary Club
1996 Senses Bureau Scholarship Award for the Outstanding Applicant to the
Freshman Class, UCSD

RESEARCH SUPPORT

Pending

NIH CHHD-C, PA10-063, 1 K99 HD068406-01
PI: S.V. Shepherd
Priority Score: 27; **approved** pending FY2012 budget but funding **unlikely**.
"Sensorimotor processing of social signals"

Prior

2007-2008 NAAR Predoctoral Fellowship
"Neural Basis of Social Gaze-following Deficits Explored in an Animal Model"

SERVICE

- 2011- Review Editor, *Frontiers in Comparative Psychology*
2009- Council, Princeton postdoctoral group, Princeton
2009-2011 Chair, Princeton postdoctoral group, Princeton
2002-2008 Representative, Steering Committee for Graduate Training in Neurobiology, Duke
2006 Chair, “Comparative Analysis” session, Human Behavior and Evolution Society meeting
1999-2000 Member, Academics & Research Committee, Caltech
1999-2000 Member, Biology Undergraduate Student Advisory Committee, Caltech

AD-HOC REVIEWING

NSF; Animal Cognition; Biology Letters; Cognition; Ethology; European Journal of Neuroscience; Experimental Brain Research; Frontiers; Journal of Experimental Psychology; National Geographic; PLoS; Proceedings of the Royal Society, Biology; SCAN; Wiley

MEMBERSHIPS

- 2002- Society for Neuroscience

MENTORING

- 2011- Marco Lanzilotto, visiting graduate student
currently: graduate student, University of Modena & Reggio Emilia, Italy
2010-2011 Matthew Slayton, research assistant
currently: graduate student, University of Chicago
2009-2010 Jeremy Borjon, senior thesis student
currently: Simons fellow, Marcus Autism Center and Emory University
2009-2010 PJ Henley, senior thesis student
currently: intern, Pulmonology and Sleep Center in Knoxville TN
2009 Geoffrey Nelson, research technician
currently: Postbac IRTA Fellow, S.-C. Lin lab, NIA
2006 Kyndal Davis, summer research fellowship
2005-2006 Lauren Whitted, summer research fellowship
2004 Luke Stewart, summer research fellowship

TEACHING

- [2012] Teaching Transcript Certificate, McGraw Center for Teaching & Learning
2004 Teaching Assistant, “Discussion Course in Research Ethics,” Duke University (2003, 2004)
2003 Teaching Assistant, “Readings in Neurobiology”, Duke University
2001 Volunteer Tutor, Florence Crittenton Center, Los Angeles, CA.
2000 Teaching Assistant, “Seminar in Cognition”, Caltech
1999 Teaching Assistant, “Neurobiology”, Caltech

INVITED SEMINARS

- 2012 "Face to Face: Primate Signal Processing." Universidad Nacional Autónoma de México. D.F., Mexico. [*upcoming*]
- 2012 "Face to Face: Primate Signal Processing." Universidad Iberoamericana. D.F., Mexico. [*upcoming*]
- 2012 "Face to Face: Primate Signal Processing." UC Davis: Department of Psychology. Davis, California, USA.
- 2012 "Face to Face: Primate Signal Processing." California National Primate Research Center. Davis, California, USA.
- 2011 "Face to Face: Primate Signal Processing." Graduate Research Seminar: Neuroethology: Behavior, Evolution & Neurobiology. Gordon Research Conference.
- 2011 "Following Gaze." Princeton University: Integrated Behavioral Research Group. Princeton, NJ, USA.
- 2010 "Interaction: Correlation and Entrainment in Primate Behavior." IIT. Parma, Italy.
- 2010 "Interaction." Bentley University. Waltham, MA, USA.
- 2009 "Interaction." Princeton University: Neuroscience of Social Decision Making. Princeton, NJ, USA.
- 2009 "Interspecies gaze correlations reveal social orienting bias." Princeton University: Neuroscience Institute Retreat, Princeton, NJ, USA.
- 2009 "Gaze in Man, Monkey, and Machine." Workshop in Quantitative Models of Natural Behavior, Computational Neuroscience Society Meeting, Berlin.
- 2008 "Neural representation of primate social cues." Graduate Research Seminar: Neuroethology 2050. Gordon Research Conference.
- 2008 "Social cuing of attention in primates." Gonda Neuroscience & Genetics Research Center, UCLA.
- 2008 "Neuroethology of social attention in primates." Ghazanfar lab, Princeton.
- 2007 "Reward and reflex as prosocial factors in gaze control." Ape Economics 2007, Max Planck Institute for Evolutionary Anthropology in Leipzig, Germany.
- 2006 "Social orienting by prosimian primates in naturalistic conditions." Section on Development and Affective Neuroscience, NIMH.
- 2006 "Social orienting in anthropoid primates: neural mechanisms." Section on Development and Affective Neuroscience, NIMH.

PRESS COVERAGE

- 2006 "Follow My Eyes", Samplings, Natural History Magazine
- 2006 "Like humans, monkeys can be snobs too", ABC News
- 2006 "'Executive Monkeys' Influenced By Other Executives, Not Subordinates", Science Daily
- 2006 "High-ranking monkeys: snobbish behavior", United Press International
- 2006 Radio interview by Jon Grayson, Science Desk, KMOX Radio 1120 AM, St. Louis, MO
- 2006 "High-status monkeys ignore the interests of riff-raff", Innovations Report

PUBLICATIONS

BOOKS

Shepherd SV (editor). *The Handbook of Evolutionary Neuroscience*. Wiley-Blackwell. (in prep)

JOURNAL ARTICLES

Shepherd SV, Ghazanfar AA. "Facial Signals Broker Relationships: Nonlinear Integration of Sent and Received Signals in Monkey Interaction." (submitted).

Roy A, **Shepherd SV**, Platt ML. "Reversible inactivation of pSTS suppresses social gaze following in the macaque (*Macaca mulatta*)." (submitted).

Shepherd SV, Lanzilotto M, Ghazanfar AA. "Facial Muscle Coordination in Monkeys During Rhythmic Facial Expressions and Ingestive Movements." *the Journal of Neuroscience* (in press).

Ghazanfar AA, **Shepherd SV**. "Monkeys at the Movies: What Evolutionary Cinematics Tell Us About Film." *Projections: The Journal of Movies and Mind*, 5(2):1-25, 2011.

Borjon JI*, **Shepherd SV***, Todorov A, Ghazanfar AA. "Eye gaze and arrows influence elementary sound perception." *Proceedings of the Royal Society B*, 278:1997-2004, 2011.

Shepherd SV, Steckenfinger SA, Hasson U, Ghazanfar A. "Human-monkey gaze correlations reveal convergent and divergent patterns of movie viewing." *Current Biology*, 20:1-8, 2010.

Shepherd SV. "Following Gaze: Gaze-following behavior as a window into social cognition." *Frontiers in Integrative Neuroscience*, 4(5):1-13, 2010.

Klein JT*, **Shepherd SV***, Platt ML. "Social Attention and the Brain" *Current Biology*, 19:R958-62, 2009.

Shepherd SV, Klein JT, Deaner RO, Platt ML. "Mirroring of attention by neurons in macaque parietal cortex." *Proc Nat Acad Sci.*, 106(23):9489-94, 2009.

Shepherd SV, Platt ML. "Spontaneous social orienting and gaze-following in ringtailed lemurs (*Lemur catta*)." *Animal Cognition*, 11(1):13-20, 2008.

Deaner RO, **Shepherd SV**. "Missed connections: Integrating proximate and ultimate explanations in cognitive neuroscience. A review of Steven M. Platek, Julian P. Keenan, and Todd K. Shackelford (Eds.), *Evolutionary Cognitive Neuroscience*." *Evolutionary Psychology*, 5(3): 632-641, 2007.

Deaner RO, **Shepherd SV**, Platt ML. "Familiarity accentuates gaze-cuing in women but not men." *Biology Letters*, 3:64-7, 2006.

Shepherd SV, Deaner RO, Platt ML. (2006) "Social status gates social attention in monkeys." *Current Biology*, 16(4):R119-R120, 2006.

Shepherd SV, Platt ML. "Noninvasive telemetric gaze tracking in freely-moving socially-housed prosimian primates." *Methods* 38(3):185-194, 2006.

BOOK CHAPTERS

Cappuccio M, **Shepherd SV**. "Embodied Symbols: Pointing and Joint Attention." In *The Hand: An Organ of Mind* (ed. Z. Radman), MIT Press, in press.

- Lemus L, **Shepherd SV**. "Emoción y conducta [Emotion and Behavior]." In *Origin y Cambio*, Universidad Iberoamericana, *in press*.
- Shepherd SV**, Cappuccio M. "Sociality, Attention and the Mind's Eyes." In *Joint Attention: New Developments* (ed. A. Seemann), MIT Press, 2012.
- Shepherd SV**, Ghazanfar AA. "Engaging neocortical networks with dynamic faces." In *Dynamic Faces: Insights from Experiments and Computation* (eds. Giese M, Curio C, Bühlhoff H), M.I.T. Press, 2011.
- Shepherd SV**, Platt ML. "Neuroethology of Attention." In *Primate Neuroethology* (eds. M. Platt & A. Ghazanfar), Oxford University Press, 2010.
- Platt ML, Watson KK, Hayden BH, **Shepherd SV**, Klein JT. "Neuroeconomics: Implications for Understanding the Neurobiology of Addiction." In *Advances in the Neuroscience of Addiction* (eds. C.M. Kuhn & G.F. Koob), CRC Press, 2010.
- Watson KK, **Shepherd SV**, Platt ML. "Neuroethology of Pleasure." In *Pleasures of the Brain* (eds. M.L. Kringelbach & K.C. Berridge), Oxford University Press, 2009.
- Shepherd SV**, Platt ML. "Neuroethology of Attention in Primates." In *Cognitive Biology: Evolutionary and Developmental Perspectives on Mind, Brain and Behavior* (eds. L. Tommasi, M. Peterson & L. Nadel), MIT Press, 2009.
- Howell S, **Shepherd SV**. "Methods of Presenting Animals to the Public." *Wildlife Rehabilitation V.14*, Ludwig DR (ed.), National Wildlife Rehabilitation Association, 1996.

ABSTRACTS

- Shepherd SV**, Lanzilotto M, Ghazanfar AA. "Motor dynamics during monkey facial movement and expressive signaling." (*in press*) *2011 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2011.
- Borjon JI, **Shepherd SV**, Jones W, Klin A, Ghazanfar AA. "The Influence of Perceived Gaze Cues on Elementary Sound Perception in Individuals with Autism." Abstract #9042, *International Meeting for Autism Research (IMFAR)*. INSAR., West Hartford, CT, 2011.
- Shepherd SV**, Ghazanfar AA. "Spontaneous facial expressions and electromyography of monkeys viewing dynamic conspecific expressions." Program No. 658.1, *2009 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2009.
- Steckenfinger SA, **Shepherd SV**, Hasson U, Ghazanfar AA. "Inter-species and inter-subject scanpath correlations while viewing complex dynamic visual sequences." Program No. 876.1, *2009 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2009.
- Shepherd SV**, Klein JT, Deaner RO, Platt ML. "Activity in LIP 'mirror neurons' reflects both deployed & observed attention." Program No. 418.12, *2008 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2008.
- Shepherd SV**, Deaner RO, Klein JT, Platt ML. "Latency of social-cued attention signals in macaque area LIP." Program No. 748.5, *2007 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2007.
- Shepherd SV** & Platt ML. "Orienting by Prosimian Primates in Naturalistic Conditions." *American Society of Primatologists*, Winston-Salem, NC, 2007.
- Shepherd SV**, Deaner RO, Klein JT, Platt ML. "Effect of observed gaze on orienting behavior and brain area LIP." *Neural Systems of Social Behavior*, Austin, TX, 2007.
- Shepherd SV**, Deaner RO, Klein JT, Platt ML. "Effect of observed gaze on orienting behavior and brain area LIP." *Cognitive Neuroscience*, New York, NY, 2007.

- Shepherd SV** & Platt ML. "Orienting by Prosimian Primates in Naturalistic Conditions." Human Behavior and Evolution Society, Philadelphia, PA, 2006.
- Shepherd SV**, Deaner RO, Platt ML. "Social status modulates gaze-following by rhesus macaques." Human Behavior and Evolution Society, Philadelphia, PA, 2006.
- Shepherd SV**, Deaner RO, Klein JT, Platt ML. "Time course of social gaze cue effects in macaque area LIP." Program No. 160.2, *2006 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2006.
- Deaner RO, **Shepherd SV**, Ristic J, Platt ML. "Familiarity accentuates gaze-following in women but not men." *Journal of Vision* 6(6): 279a, 2006.
- Shepherd SV**, Deaner RO, Platt ML. "Social status modulates gaze-following in the rhesus macaque." Program No. 286.17, *2005 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2005.
- Deaner RO, **Shepherd SV**, Platt ML. "Social context influences gaze-following and neuronal activity in macaque area LIP." *Journal of Vision* 5(8): 394a, 2005.
- Shepherd SV**, Schmitt DO, Platt ML. "Social orienting by primates moving freely in naturalistic environments." Program No. 332.3, *2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience., 2004
- Shepherd SV**, Schmitt DO, Platt ML. "Visual orienting strategies in freely-moving primates." *Journal of Vision* 4(8):658a, 2004.
- Shepherd SV**, Schmitt DO, Platt ML. "Visual orienting by freely-moving primates in naturalistic environments." Program No. 386.3, *2003 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2003.
- Shepherd SV** & Shimojo S. "No dissociation between reaction time and temporal-order judgment response to gradual versus abrupt stimulus onset." SURF Seminar Day, Caltech, 1999.