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Curriculum Vitae Stephen V. Shepherd

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EDUCATION

2002-2008	Duke University	Ph.D., Neurobiology <i>'Neuroethology of Social Attention in Primates'</i>
1996-2000	Caltech	B.S., Biology (Computational & Neural Systems)

POSITIONS

2015-	Research Associate <i>Laboratory of Neural Systems</i>	The Rockefeller University <i>Winrich A. Freiwald</i>
2012-2015	Postdoctoral Researcher <i>Laboratory of Neural Systems</i>	The Rockefeller University <i>Winrich A. Freiwald</i>
2008-2012	Postdoctoral Researcher <i>Neuroscience Institute</i>	Princeton University <i>Asif A. Ghazanfar</i>
2003-2008	Graduate Student <i>Department of Neurobiology</i>	Duke University <i>Michael L. Platt</i>
2000-2002	Research Assistant <i>Department of Biology</i>	Caltech <i>John M. Allman</i>
1997-1998	Technical Writer, Intelligent Fiber Optic Systems (IFOS), Los Altos, CA	
1995-1996	Volunteer, Wildlife Education & Rehabilitation Center, Morgan Hill, CA	

RESEARCH SUPPORT

Current

2017-2018	Kavli Neural Systems Institute Pilot Grant
2017-2018	NARSAD Young Investigator Fellowship
2014-2020	NIH K99 Pathway to Independence Award <i>'Sensorimotor Processing of Social Signals'</i>

Prior

2012-2014	Leon Levy Fellowship in Mind, Brain and Behavior <i>'Sensorimotor Processing of Social Signals'</i>
2007-2008	NAAR (Autism Speaks) Predoctoral Fellowship <i>'Neural Basis of Social Gaze-following Deficits Explored in an Animal Model'</i>

PUBLICATIONS

BOOKS

Shepherd SV (editor). *The Wiley Handbook of Evolutionary Neuroscience*. Wiley-Blackwell, 2016.

JOURNAL ARTICLES

- Shepherd SV**, Freiwald WA. 'Neural mechanisms linking face perception to facial signal production.' *in prep.*
- Kano F, **Shepherd SV**, Hirata S, Call J. 'Evolution of social attention: predictable species variation by movie viewing in monkeys, great apes, and humans.' *submitted.*
- Roy A, **Shepherd SV**, Platt ML. 'Reversible inactivation of pSTS suppresses social gaze following in the macaque (*Macaca mulatta*).' *Social, Cognitive, and Affective Neuroscience* 9(2):209-17, 2014.
- Shepherd SV**, Lanzilotto M, Ghazanfar AA. 'Facial Muscle Coordination in Monkeys During Rhythmic Facial Expression and Ingestive Movement.' *the Journal of Neuroscience* 32(18):6105-6116, 2012.
- 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.' *Proceedings of the National Academy of Sciences* 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. '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

- Sliwa J, Takahashi DY, **Shepherd SV**. 'Neural Mechanisms of Communication'. In *The Wiley Handbook of Evolutionary Neuroscience* (ed. S.V.Shepherd), Wiley-Blackwell, 2016.
- Lemus L, **Shepherd SV**. 'Emoción y conducta [Emotion and Behavior]'. In *Origin y Cambio*, Universidad Iberoamericana, *in press.*
- Cappuccio M, **Shepherd SV**. 'Pointing Hand: Joint Attention and Embodied Symbols.' In *The Hand, an Organ of the Mind: What the Manual Tells the Mental* (ed. Z. Radman), MIT Press, 2013.

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. Krangelbach & 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, Freiwald WA. 'Neural Mechanisms of Communication via Facial Expression.' *2016 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2016.

Shepherd SV, Freiwald WA. 'Neural Mechanisms of Communication via Facial Expression.' Society for Social Neuroscience, 2016.

Kano F, **Shepherd SV**, Hirata S, Call J. "Evolution of Social Attention: Predictable variation in movie viewing across macaques, great apes and humans." *International Congress of Psychology*. Japan, 2016.

Shepherd SV, Freiwald WA. 'Neural Mechanisms of Communication via Facial Expression.' *2015 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2015.

Shepherd SV, Freiwald WA. 'Perception and Production of Communication Signals in the Macaque.' *KAST/NAS Kavli Frontiers of Science Symposium*. Jeju, Korea, 2015.

Shepherd SV, Lanzilotto M, Ghazanfar AA. 'Motor dynamics during monkey facial movement and expressive signaling.' *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.

HONORS

2015	Kavli Fellow
2012-14	Leon Levy Fellow
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

MENTORING

2014-2016	Cole Dunbar, undergraduate volunteer <i>currently:</i> undergraduate, Columbia University
2013-2014	Raphael Tenazas, high school student, Rockefeller Summer Science Program <i>currently:</i> undergraduate, Johns Hopkins University
2011-2012	Marco Lanzilotto, visiting grad. student, U. of Modena & Reggio Emilia, Italy <i>currently:</i> postdoctoral researcher, Università degli studi di Parma
2010-2011	Matthew Slayton, research assistant <i>currently:</i> graduate student, University of Chicago
2009-2010	Jeremy Borjon, senior thesis student <i>currently:</i> graduate student, Princeton University
2009-2010	PJ Henley, senior thesis student
2009	Geoffrey Nelson, research technician
2006	Kyndal Davis, summer research fellowship
2005-2006	Lauren Whitted, summer research fellowship
2004	Luke Stewart, summer research fellowship

TEACHING

2017	Adjunct Professor, 'Comparative Cognition', The College of New Jersey
2016	Adjunct Instructor, 'Human Function & Dysfunction', Fordham College
2015	Brain Awareness Week demonstrations at PS154M
2013	Guest Lecture, 'Introduction to Cognitive Science', Yale University
2012	Guest Lecture, 'Biology Seminar', Long Island University
2011	Guest Lecture, 'Diversity of Brains', Princeton University
2004	Teaching Assistant, 'Discussion Course in Research Ethics,' Duke University
2003	Teaching Assistant, 'Discussion Course in Research Ethics,' Duke University
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

- 2016 'Cortical Control of Face Movement in Primate Communication,' The Rockefeller University: Postdoctoral Retreat. New York, NY, USA.
- 2016 'Neural Mechanisms of Face-to-Face Interaction,' Rutgers University. Newark, NJ, USA.
- 2016 'Neural Mechanisms of Face-to-Face Interaction,' Hunter College. New York, NY, USA.
- 2014 'Neural Mechanisms for Primate Interaction,' Weil Cornell Medical College: Leon Levy Neuroscience Fellows Symposium. New York, NY, USA.
- 2012 'Intra- and Inter-Individual Coordination of Facial Behavior.' Society for Social Neuroscience. New Orleans, USA.
- 2012 'Face to Face: Primate Signal Processing.' Universidad Nacional Autónoma de México: Instituto de Fisiología Celular. D.F., Mexico.
- 2012 'Face to Face: Evolution Through Interaction.' Origen y evolución de la cognición, la conciencia y las emociones. Universidad Iberoamericana. D.F., Mexico.
- 2012 'Face to Face: Primate Signal Processing.' California National Primate Research Center. Davis, CA, USA.
- 2011 'Face to Face: Primate Signal Processing.' Neuroethology: Behavior, Evolution & Neurobiology. Gordon Research Conference: GRS. Stone Hill, MA, USA.
- 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 'Gaze in Man, Monkey, and Machine.' Workshop in Quantitative Models of Natural Behavior, Computational Neuroscience Society Meeting, Berlin, Germany.
- 2008 'Neural representation of primate social cues.' Graduate Research Seminar: Neuroethology 2050. Gordon Research Conference. Oxford, UK.
- 2008 'Social cuing of attention in primates.' Gonda Neuroscience & Genetics Research Center, UCLA.
- 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.