SALK INSTITUTE
FOR BIOLOGICAL STUDIES

Systems Neurobiology Laboratories

To: Tanya Sharpee & Sam Pfaff
Appointments Committee Chair and Co-Chair

From: John Reynolds and Terry Sejnowski

Date: June 28, 2024

Re: Rich Krauzlis Adjunct Reappointment

Dear Tanya, Sam and members of APCOM:

We, John Reynolds, Tom Albright, and Terry Sejnowski, are writing in strong support of Dr. Rich Krauzlis' reappointment as an Adjunct Professor at the Salk Institute. Dr. Krauzlis currently serves as the Lab Chief of the Laboratory of Sensorimotor Research at the National Eye Institute, National Institutes of Health. Prior to his current position, Dr. Krauzlis was a valued faculty member at the Salk Institute, where he made significant contributions to our research community from 1997 to 2011.

Dr. Krauzlis has established himself as a leading figure in the field of visual neuroscience, with groundbreaking contributions to our understanding of eye movements, visual attention, and sensorimotor integration. His research has provided crucial insights into the neural mechanisms underlying pursuit and saccadic eye movements, as well as the role of the superior colliculus in visual attention and decision-making. Dr. Krauzlis' exceptional work has been recognized through numerous prestigious awards, including his election as Vice-Chair of the Eye Movements Gordon Research Conference and his membership in the International Neuropsychological Symposium.

His service to the scientific community is equally impressive, with roles on various NIH committees, editorial boards, and as a frequent reviewer for top-tier journals and funding agencies. We have reviewed Dr. Krauzlis' CV and Salk Adjunct Service/Contributions Form, both of which are attached to this letter.

In his form, Dr. Krauzlis has identified multiple ways in which he can contribute to the Salk Institute as an adjunct faculty member. These include giving lectures in the 200B Neuroscience course, serving on thesis committees for graduate students, participating in Faculty Review Committees, and presenting seminars on his recent research. His willingness to engage in these activities demonstrates his ongoing commitment to the Salk Institute and his desire to contribute to our academic community.

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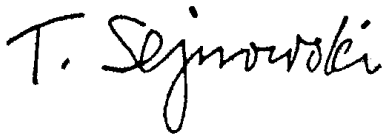
Given Dr. Krauzlis' exceptional scientific achievements, his history of valuable contributions to the Salk Institute, and his enthusiasm for continued involvement, we wholeheartedly recommend his reappointment as an Adjunct Professor. His expertise and dedication will undoubtedly enrich our research environment and benefit our students and faculty.

Sincerely,

John H. Reynolds
Fiona and Sanjay Jha Chair in Neuroscience
Professor, Systems Neurobiology Labs

Thomas D. Albright
Professor Emeritus



Terrence Sejnowski
Francis Crick Chair
Director, Computational Neurobiology Laboratory

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EDUCATION

1981 – 1985	Princeton University, Princeton, New Jersey A.B., Biology
1985 – 1991	University of California, San Francisco, California Ph.D., Neuroscience

PROFESSIONAL EXPERIENCE

November 1991 – June 1997	Post-doctoral Fellow, Laboratory of Sensorimotor Research National Eye Institute, NIH, Bethesda, Maryland
July 1997 – April 2004	Assistant Professor, Systems Neurobiology Laboratory Salk Institute for Biological Studies, La Jolla, California
March 1999 – July 2007	Assistant Adjunct Professor, Department of Neurosciences University of California, San Diego, California
April 2004 – April 2010	Associate Professor, Systems Neurobiology Laboratory Salk Institute for Biological Studies, La Jolla, California
July 2007 – July 2011	Associate Adjunct Professor, Department of Neurosciences University of California, San Diego, California
April 2010 – August 2011	Professor, Systems Neurobiology Laboratory Salk Institute for Biological Studies, La Jolla, California
August 2011 – present	Adjunct Professor, Systems Neurobiology Laboratory Salk Institute for Biological Studies
August 2011 – present	Senior Investigator and Section Chief Laboratory of Sensorimotor Research National Eye Institute, National Institutes of Health
March 2015 – present	Joint Appointment, Cellular Neurobiology Branch National Institute on Drug Abuse, National Institutes of Health
March 2021 – Dec 2022	Acting Lab Chief Laboratory of Sensorimotor Research National Eye Institute, National Institutes of Health
January 2023 – present	Lab Chief Laboratory of Sensorimotor Research National Eye Institute, National Institutes of Health

HONORS AND AWARDS

1985	Summa cum Laude, Princeton
2000 – 2002	Scholar, The McKnight Endowment Fund for Neuroscience
2000	Pew Scholar in the Biomedical Sciences (declined)
2001	President's Club Innovation Grant, Salk Institute
2004 – 2006	Frederick B. Rentschler Developmental Chair, Salk Institute
2006	Keynote Speaker, British Association of Cognitive Neuroscience Annual Conference
2006 – 2008	McKnight Technological Innovation Award
2008 – 2009	Salk Institute Innovation Award
2011	Keynote Speaker, European Conference on Eye Movements
2013	Plenary Lecture, German Neurobiology Meeting, Göttingen, Germany
2016	Keynote Speaker, Symposium: "The Future of Attention" Center for Visual Science Symposium, Rochester NY
2018	Elected Member of International Neuropsychological Symposium
2019 – 2023	Elected Vice-Chair, Eye Movements Gordon Research Conference
2023	Elected to Board of Vision Sciences Society
2023 –	Chair, Eye Movements Gordon Research Conference

PROFESSIONAL MEMBERSHIPS

Society for Neuroscience

Association for Research in Vision and Ophthalmology

Vision Sciences Society

International Neuropsychological Symposium

PROFESSIONAL SERVICE

NIH Service:

2016	ad hoc reviewer, NIH Central Tenure Committee
2017	Member, NIH Stadtman Synapses and Circuits Search Committee
2017 – 2018	Chair, LSR Faculty Search Committee (Search resulted in the successful recruitment of Dr. Hendrikje Nienborg)
2018	Moderator, NEI 50th Anniversary Symposium: Future of Vision Research
2019	Member, NEI Chief Information Officer Search Committee
2020 – 2021	Member, NIMH NIND Neurodevelopmental Search Committee
2020 –	Member, Neurophysiology Imaging Facility (NIF) Steering Committee

2020 – 2023	NEI Representative, Institute for Laboratory Animal Research (ILAR) Roundtable, National Academy of Sciences
2020 – 2023	NIH Building 49 User Committee
2020 – 2023	NEI Scientific IT Advisory Committee (SIAC)
2021 – 2022	NIH Coordinating Group National Academies of Science, Engineering, and Medicine NHP study
2021 – 2022	NEI Quadrennial Review Committee
2021 – 2022	NEI Strategic Plan, Biology and Neuroscience of Vision Working Group
2023	DDIR Representative for tenure-track NIMH BSC presentation
2023	LSR Faculty Search Committee (Search resulted in successful recruitment of Dr. Farran Briggs)
2023	Chair, NIH Animal Research Community Support Task Force
2023 –	Building 49 Central Animal Facility User Committee
2023 –	Executive sponsor, NEI DEIA Quick Start Team
2023 –	NIH Animal Research Advisory Committee
2023 –	Chair, NEI Animal Care and Use Committee

Other Professional Service:

2007 – present	Board of Editors, *Journal of Vision*
2008 – 2015	Board of Editors, *Vision Research*
2011	Organizer, International Workshop on Visual Attention Buenos Aires, Argentina
2010 – 2015	Senior Editor, *Vision Research*
2011 – 2016	Associate Editor, *Journal of Neuroscience* (Behavior, Systems and Cognition section)
2011	Organizer, International Workshop on Visual Attention Allahabad, India
2016	External Reviewer, Zanvyl Krieger Mind/Brain Institute Academic Council Review, Johns Hopkins University, MD
2017	Organizer, Workshop on Attention: What is it? Carnegie Mellon University, Pittsburgh, PA
2018 – 2023	Board of Editors, *Annual Review of Vision Science*
2020	Guest Editor, *Proceedings of the National Academy of Sciences*
2021	Organizer, Symposium at 20th Anniversary of Vision Sciences Society *What we learn about the visual system by studying non-human primates: Past, present, and future* Virtual meeting
2022	Vision Sciences Society Young Investigator Award Committee
2023	Chair, Vision Sciences Society Young Investigator Award Committee
2023 –	Vision Sciences Society Board Member

Reviewer for the following funding agencies and foundations:

Autism Speaks
Deutsche Forschungsgemeinschaft (Germany)
European Research Council
Fondation pour la Recherche Médicale (France)
Fund for Scientific Research – FNRS (Belgium)
The Icelandic Centre for Research (Iceland)
The Israel Science Foundation (Israel)
Leverhulme Trust
Medical Research Council (UK)
National Science Foundation
Natural Sciences and Engineering Research Council of Canada
NIH Director's Early Independence Award
NIH Special Emphasis Panel
NIH Study Section, ad hoc
Research Grants Council (Hong Kong, China)
Swiss National Science Foundation
Unites States – Israel Binational Science Foundation
Wellcome Trust (UK)
Whitehall Foundation

Associate Editor for *The New Encyclopedia of Neuroscience* (Elsevier)

Author of chapter "Eye Movements" in graduate level textbook *Fundamental Neuroscience* (3rd and 4th editions, Elsevier)

Consulting referee for the following journals:

American Journal of Psychiatry
Behavioral and Brain Sciences
Behavioral Brain Research
Biosystems
Brain
Cell Reports
Cerebral Cortex
Current Biology
eLife
eNeuro
European Journal of Neuroscience
Experimental Brain Research
Investigative Ophthalmology and Visual Science
Journal of Anatomy
Journal of Cognitive Neuroscience
Journal of Comparative Neurology
Journal of Computational Neuroscience
Journal of Experimental Biology
Journal of Neurophysiology
Journal of Neuroscience
Journal of Physiology
Journal of the Optical Society of America A
Journal of Vestibular Research
Journal of Vision
Nature
Nature Communications
Nature Neuroscience

Nature Reviews Neuroscience
Neural Computation
Neuron
Neuroscience
Neuroscience and Biobehavioral Reviews
Proceedings of the National Academy of Sciences
Science
Science Advances
Scientific Reports
Trends in Neurosciences
Vision Research
Visual Neuroscience

P U B L I C A T I O N S

Original Research Articles:

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78. Katz, L.N., Yu, G., Herman, J.P., and Krauzlis, R.J., Correlated variability in primate superior colliculus depends on functional class. *Commun Biol*., 6(1):540, 2023.
77. Yu, G., Herman, J.P., Katz, L.N., and Krauzlis, R.J., Microsaccades as a marker not a cause for attention-related modulation, *eLife*, 11: e74168, 2022.
76. Wang, L., Herman, J.P., and Krauzlis, R.J., Neuronal modulation in the mouse superior colliculus during covert visual selective attention, *Scientific Reports*, 12, 2482, 2022.
75. Goldstein, S., Wang, L., McAlonan, K., Torres-Cruz, M., and Krauzlis, R.J., Stimulus-driven visual attention in mice, *J. Vision*, 22: 11, 2022.
74. Bogadhi, A.R., Katz, L.N., Bollimunta, A., Leopold, D.A., and Krauzlis, R.J., Midbrain activity shapes high-level visual properties in the primate temporal cortex, *Neuron*, 109: 690-699, 2021.
73. Wang, L., and Krauzlis, R.J., Involvement of striatal direct pathway in visual spatial attention in mice, *Current Biology,* 30: 4739-4744, 2020.
72. Herman, J.P., Arcizet, F., and Krauzlis, R.J., Attention-related modulation of caudate primate caudate neurons depends on superior colliculus activity, *eLife,* 9: e53998, 2020. doi: 10.7554/eLife.53998.
71. Wang, L., McAlonan, K., Goldstein, S., Gerfen, C.R., and Krauzlis, R.J., A causal role for mouse superior colliculus in visual perceptual decision-making, *J. Neuroscience,* 40: 3768-3782, 2020.
70. Krauzlis, R.J., Nichols, N., Rangarajan, K.V., McAlonan, K., Goldstein, S., Yochelson, D. and Wang, L., Visual psychophysics in head-fixed mice, *Current Protocols in Neuroscience,* 92: e95, 2020.
69. Bogadhi, A.R., Bollimunta, A., Leopold, D.A., and Krauzlis, R.J., Spatial attention deficits are causally linked to an area in macaque temporal cortex, *Current Biology,* 29: 726-736, 2019.
68. Herman, J.P, Katz, L.N., and Krauzlis, R.J., Midbrain activity can explain perceptual decisions during an attention task, *Nature Neuroscience*, 21: 1651-1655, 2018.
67. Arcizet, F., and Krauzlis, R.J., Covert spatial selection in primate basal ganglia, *PLoS Biology*, 16: e2005930, 2018.
66. Bogadhi, A.R., Bollimunta, A., Leopold, D.A., and Krauzlis, R.J., Brain regions modulated during covert visual attention in the macaque, *Scientific Reports*, 8: 15237, 2018.
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64. Wang, L., Rangarajan, K.V., Gerfen, C.R., and Krauzlis, R.J., Activation of striatal neurons causes a perceptual decision bias during visual change detection in mice, *Neuron*, 97: 1-13, 2018.
63. Wang, L., and Krauzlis, R.J., Visual selective attention in mice, *Current Biology*, 28: 676-685, 2018.

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58. Chukoskie, L., Snider, J., Mozer, M.C., Krauzlis, R.J., and Sejnowski, T.J., Learning where to look for a hidden target. *PNAS*, 110 (suppl. 2): 10438-10445, 2013.
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29. Stone, L.S., and Krauzlis, R.J., Shared motion signals for human perceptual decisions and oculomotor actions, *J. Vision*, 3: 725-736, 2003.

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23. Krauzlis, R.J., and Dill, N., Neural correlates of target choice for pursuit and saccades in the primate superior colliculus, *Neuron*, 35: 355-363, 2002.

22. Krauzlis, R.J., Dill, N., and Kornylo, K., Activity in the primate rostral superior colliculus during the “gap effect” for pursuit and saccades, *Ann. NY Acad. Sci.*, 956: 409-413, 2002.

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20. Krauzlis, R.J. and Adler, S.A., Effects of directional expectations on motion perception and pursuit eye movements. *Visual Neuroscience*, 18: 365-376, 2001.

19. Krauzlis, R.J., Population coding of movement dynamics by cerebellar Purkinje cells. *NeuroReport*, 11: 1045-1050, 2000.

18. Basso, M.A., Krauzlis, R.J., and Wurtz, R.H., Activation and inactivation of rostral superior colliculus neurons during smooth-pursuit eye movements in monkeys. *J. Neurophysiol.,* 84: 892-908, 2000.

17. Krauzlis, R.J., Basso, M.A., and Wurtz, R.H., Discharge properties of neurons in the rostral superior colliculus of the monkey during smooth-pursuit eye movements. *J. Neurophysiol.,* 84: 876-891, 2000.

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15. Krauzlis, R.J. and Miles, F.A., Role of the oculomotor vermis in generating pursuit and saccades: Effects of microstimulation. *J. Neurophysiol.* 80: 2046-2062, 1998.

14. Krauzlis, R.J., Basso, M.A., and Wurtz, R.H., Shared motor error for multiple eye movements. *Science,* 276: 1693-1695, 1997.
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10. Krauzlis, R.J. and Miles, F.A., Decreases in the latency of smooth pursuit and saccadic eye movements produced by the "gap paradigm" in the monkey. *Vision Res*., 36: 1973-1985, 1996.
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5. Krauzlis, R.J. and Lisberger, S.G., Temporal properties of visual motion signals for the initiation of smooth pursuit eye movements in monkeys. *J. Neurophysiol*. 72:150-162, 1994.
4. Goldreich, D., Krauzlis, R.J., and Lisberger, S.G., Effect of changing feedback delay on spontaneous oscillations in smooth pursuit eye movements of monkeys. *J. Neurophysiol*. 67: 625-638, 1992.
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Reviews, Book Chapters, and Commentaries:

43. Krauzlis, R.J., Krauzlis R.J., Wang L., Yu G., Katz L.N., What is attention? Wiley Interdiscip Rev Cogn Sci. 2021 Jun 24:e1570.
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27. Carrasco, M., Eckstein, M., Krauzlis, R.J., and Verghese, P., *Vision Research* special issue on "Visual attention". *Vision Research*, 74: 1, 2012.
26. Gegenfurtner, K., Bremmer, F., Fiehler, K., Henriques, D., and Krauzlis, R.J., Recent advances in perception and action. *Vision Research*, 51: 801-803, 2011.
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24. Gegenfurtner, K., Bremmer, F., Fiehler, K., Henriques, D., and Krauzlis, R.J., Vision Research special issue on "Perception and action". *Vision Research*, 50: 2617, 2010.
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20. Krauzlis, R.J., and Chukoskie, L., Oculomotor control: Target selection for pursuit and saccades. In: *The New Encyclopedia of Neuroscience*, L.R. Squire, Editor-in-Chief, Academic Press, Oxford, 2009.
19. Martinez-Conde, S., Krauzlis, R.J., Miller, J., Morrone, C., Williams, D., & Kowler, E., Eye movements and the perception of a clear and stable visual world. *J. Vision*, 8(14): i, 1, 2008.
18. Krauzlis, R.J., and Lovejoy, L.P., Walk this way. *Neuron*, 60: 7-8, 2008.
17. Krauzlis, R.J., Eye Movements. In: *Fundamental Neuroscience*, 3rd Edition, L.R. Squire, ed., Elsevier, pp. 775-792, 2008.
16. Krauzlis, R.J., and Hafed, Z.M., Finding our way around the sensory-motor corner. *Neuron*, 54: 852-854, 2007.
15. Krauzlis, R.J., Target selection, attention, and the superior colliculus. *Behavioral and Brain Sciences*, 30: 98-99, 2007.
14. Krauzlis, R.J. The control of voluntary eye movements: New perspectives. *The Neuroscientist,* 11: 124-137, 2005.
13. Krauzlis, R.J., Target selection and the superior colliculus: goals, choices and hypotheses, *Vision Res*, 44: 1445-1451, 2004.
12. Krauzlis, R.J., Recasting the smooth pursuit eye movement system, *J. Neurophysiol.*, 91: 591-603, 2004.

11. Krauzlis, R.J., and Stone, L.S., Eye movement: tracking. In: *Encyclopedia of Neuroscience*, 3rd Edition, G. Adelman and B. Smith, ed., Elsevier, 2003.

10. Krauzlis, R.J., and Carello, C.D., Going for the goal, *Nature Neuroscience*, 6: 332-333, 2003.

9. Krauzlis, R.J. and Stone, L.S., Pursuit eye movements. In: *The Handbook of Brain Theory and Neural Networks, Second Edition*, M.A. Arbib, ed., MIT Press, pp. 929-934, 2002.

8. Krauzlis, R.J., Reaching for answers, *Neuron*, 34: 673-674, 2002.

7. Krauzlis, R.J., Eye movement: tracking. In: *Encyclopedia of Neuroscience*, 2nd Edition, G. Adelman and B. Smith, ed., Elsevier, http://www.elsevier.com/locate/encneu, 1999.

6. Krauzlis, R.J. and Stone, L.S. Tracking with the mind's eye. *Trends in Neurosciences*, 22: 544-550, 1999.

5. Krauzlis, R.J., Pursuit eye movements. In: *The Handbook of Brain Theory and Neural Networks*, M.A. Arbib, ed., MIT Press, pp. 775-779, 1995.

4. Busettini, C., Krauzlis, R.J., and Miles, F.A. Short-latency vergence responses. In: *Contemporary Ocular Motor and Vestibular Research: A Tribute to David A. Robinson*, U. Buttner, T. Brandt, A. Fuchs, D. Zee, ed., Verlag, pp. 312-319, 1994.

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1. Krauzlis, R.J., The visual drive for smooth eye movements. In: *Visual detection of motion*, A.T. Smith and R.J. Snowden, ed., London, Academic Press, pp. 437-473, 1994.

INVITED TALKS

1988 Refining Ocular Motor Models through Simulation, Cold Spring Harbor Laboratory, New York.

1989 Laboratory for Sensorimotor Research, National Institutes of Health.

1990 Afternoon of Physiology, University of California at San Francisco.

Speech and Hearing Sciences seminar series, University of California at San Francisco.

Gordon Research Conference on Theoretical Biology and Mathematics, Tilton, New Hampshire.

1991 Bioengineering seminar series, Topics in Neuroscience Research (E298B-3), University of California at Berkeley.

National Student Research Forum, Galveston Texas.

1992 Workshop sponsored by the Hereditary Disease Foundation, Santa Monica, California.

1993 Life sciences division, NASA Ames Research Center, Moffet Field, California.

1995 Center for Neuroscience, University of California at Davis.

Department of Psychology, University of California at Davis.

National Eye Institute, National Institutes of Health, Bethesda, Maryland.

1996 Department of Neurobiology and Anatomy, Bowman Gray School of Medicine, Winston-Salem, North Carolina.

Department of Anatomy and Neurobiology, Washington University School of Medicine, St. Louis, Missouri.

Georgetown Institute for Cognitive and Computational Sciences, Georgetown University, Washington, D.C.

The Rockefeller University, New York, New York.

The Salk Institute, La Jolla, California.

Dartmouth College, Hanover, New Hampshire.

University College, London, England.

1997 Integrative Neuroscience Seminar, National Institutes of Health, Bethesda, Maryland.
Laboratory of Neural Control, National Institutes of Health, Bethesda, Maryland.
Helmholtz Club, University of California, Irvine, California.

1998 Sloan Summer Meeting, Pasadena, California.

1999 The Smith-Kettlewell Eye Research Institute, San Francisco, California.
NASA Ames Research Center, Moffett Field, California.

2001 Laboratoire de Physiologie Neurosensorielle, College de France, Paris, France.
Centre de Recherche en Neurosciences Cognitives, Centre National de la Recherche Scientifique, Marseille, France.
Inserm unit “Espace et Action”, Lyon, France.
The Society for the Neural Control of Movement, Sevilla, Spain.
Sloan Seminar Series, The Salk Institute, La Jolla, California.

2002 City University of New York, New York, New York.
Helmholtz Club, University of California, Irvine, California.
The Society for the Neural Control of Movement, Naples, Florida.
Joint Symposium on Neural Computation, Pasadena, California.
University of California, Santa Barbara, California

2003 Center for Visual Science, Rochester University, Rochester, New York
Centre for Vision Research, York University, Toronto, Canada
International Workshop on Visual Attention, San Miniato, Italy
Laboratory of Sensorimotor Research, 25th Anniversary Meeting, Bethesda, Maryland.
The Smith-Kettlewell Eye Research Institute, San Francisco, California.
NASA Ames Research Center, Moffett Field, California.
Columbia University, New York, New York.

2004 11th Joint Symposium on Neural Computation, University of Southern California, CA
The Salk Institute, La Jolla, CA
McKnight Conference on Neuroscience, Aspen, Colorado.

2005 Vision Science Research Center, University of Alabama, Birmingham, AL
Neurobiology Department, Harvard University, Cambridge, MA
Annual Spring Retreat for Cognitive Neuroscience, San Diego, CA
Structure, Function and Development of the Visual System, Cold Spring Harbor, NY
Oculomotor System Biology, Gordon Research Conference, Lewiston, ME

2006 The Society for the Neural Control of Movement, Key Biscayne, FL
UCSD Neuroscience Graduate Program Annual Retreat, Lake Arrowhead, CA
British Association for Cognitive Neuroscience (Keynote lecture), Coventry, United Kingdom
Université catholique de Louvain, Brussels, Belgium

2007 2nd International Workshop on Visual Attention, Buenos Aires, Argentina
Centre de Recherche en Neurosciences Cognitives, CNRS, Marseille, France.
Structure, Function and Development of the Visual System, Cold Spring Harbor, NY

2008 UCSD Neuroscience Graduate Program Annual Retreat, Lake Arrowhead, CA
Institute for Neural Computation Spring Retreat, San Diego, CA
Center for Neural Science, New York University, New York, NY
Mahoney Center for Brain and Behavior Research, Columbia University, New York, NY
Department of Psychology, University of California, Santa Barbara, California.

Department of Cognitive Sciences, University of California, Irvine, California.
Center for the Neural Basis of Cognition, Univ. of Pittsburgh and Carnegie Mellon, Pittsburgh, PA

2009 Computational and Systems Neuroscience (Cosyne) Workshop, Snow Bird, UT
Neuromorphic Engineering Student Society Retreat, La Jolla, CA
Eye Movements and Vision: A Symposium in Honor of Fred Miles, St John's College, Oxford, UK
Center for Neuroscience, University of Wisconsin-Madison, Madison, WI
The Society for the Neural Control of Movement, Waikoloa, HI
Joint Symposium on Neural Computation, USC, Los Angeles, CA
International Conference on Cognitive and Neural Systems, Boston University, Boston, MA
Structure, Function and Development of the Visual System, Cold Spring Harbor, NY
Optical Society's Fall Vision Meeting, Seattle, WA
NIH Neuroscience Seminar Series, Bethesda, MD
International Symposium on Cognition and Action, Tamagawa University, Yokahama, Japan
National Institute for Physiological Sciences, Okazaki, Japan
Kyoto University, Kyoto, Japan
Hokkaido University, Sapporo, Japan

2010 Barrow Neurological Institute, Phoenix, AZ
The Salk Institute, La Jolla, CA
International Meeting for Autism Research, Philadelphia, PA
Department of Psychology, UCSD, San Diego, CA
Workshop on Perception and Action, Rauischholzhausen Castle, Marburg, Germany
University of Tübingen, Tübingen, Germany
Center for the Neural Basis of Cognition, Univ. of Pittsburgh and Carnegie Mellon, Pittsburgh, PA
Mahoney Center for Brain and Behavior Research, Columbia University, New York, NY
Laboratory of Sensorimotor Research, National Eye Institute, Bethesda, MD
Center for Neuroscience, UC Davis, Davis, CA
Oxyopia Seminar, UC Berkeley, Berkeley, CA

2011 Georgia Health Sciences University, Augusta, GA
VisioNYC Seminar, New York City, NY
University of Western Ontario, London, Canada
Bronowski Art and Science Forum, Neurosciences Institute, La Jolla, CA
Autism Discovery Institute, Rady Children's Hospital, San Diego, CA
European Conference on Eye Movements, Marseille, France
3rd International Workshop on Visual Attention, Allahabad, India
Perceptual Science Talk Series, Rutgers University, Piscataway, NJ

2012 UCLA Joint Seminar in Neuroscience, UCLA, Los Angeles, CA
Systems Neuroscience Forum, Janelia Farm, HHMI, Ashburn, VA
Brown-NIH Neuroscience Graduate Program Partnership Retreat, Woods Hole, MA
Center for Interdisciplinary Research, Bielefeld University, Bielefeld, Germany
Justus-Liebig University, Giessen, Germany
Stanford School of Medicine, Stanford University, Stanford, CA

2013 Plenary Lecture, German Primate Neurobiology Meeting, Goettingen, Germany
Workshop on Corollary Discharge, Janelia Farm, HHMI, Ashburn, VA
Interactions in Vision, Centre for Vision Research, York University, Toronto, Canada

European Conference on Eye Movements, Lund, Sweden

2014 University of Louvain, Brussels, Belgium
Laboratoire Psychologie de la Perception, University of Paris Descartes, Paris, France
Institut du Cerveau et de la Moelle epiniere (ICM), Pitie-Salpetriere, Paris, France
Neural Control of Movement, Amsterdam, Netherlands
Conference on Signal Transforms in the Early Visual System, Janelia Farm, HHMI, Ashburn, VA
Zanvyl Krieger Mind/Brain Institute, Johns Hopkins University, Baltimore, MD

2015 Center for Perceptual Systems, University of Texas, Austin, TX
Vision Sciences Retreat, University of Pennsylvania, Philadelphia, PA
Vision: A Platform for Linking Circuits, Perception & Behavior, Cold Spring Harbor, NY
McGovern Institute for Brain Research, Peking University, Beijing, China
Shanghai Neuroeconomics Collective, Shanghai New York University, Shanghai, China

2016 Cognitive Science Colloquium, Cornell University, Ithaca, NY
Computational and Systems Neuroscience (Cosyne) Workshop, Snow Bird, UT
Neuroscience Winter Conference, Soelden, Austria
Keynote lecture, Symposium on “The Future of Visual Attention”, Rochester, NY
International Neuropsychological Symposium, Baiona, Spain

2017 Workshop on Attention, Carnegie Mellon University, Pittsburgh, PA
Center for Neural Science, New York University, New York, NY
National Institute on Drug Abuse, National Institutes of Health, Baltimore, MD
Vision: A Platform for Linking Circuits, Perception & Behavior, Cold Spring Harbor, NY
The Smith-Kettlewell Eye Research Institute, San Francisco, California
Netherlands Institute for Neuroscience, Amsterdam, Netherlands
Control Processes Meeting, Amsterdam, Netherlands

2018 Neuroscience Seminar Series, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
Sainsbury Wellcome Centre, London, UK
Institut de Neuroscience de la Timone, Aix-Marseille University, Marseille, France
Vision / Action: A symposium in celebration of Lance Optican, San Diego, California

2019 Distinguished Lecture in Ophthalmology, University of Pittsburgh, Pittsburgh, PA
Department of Psychological & Brain Sciences, Johns Hopkins University, Baltimore, MD
Department of Neuroscience, Washington University, St. Louis, MO
Vision: A Platform for Linking Circuits, Perception & Behavior, Cold Spring Harbor, NY
Summer School for Primate Cognitive Neuroscience, Bad Bevensen, Germany
Columbia Neuroscience Seminar, Columbia University, New York, NY

2020 School of Optometry, University of Montreal, Montreal, Canada
Institute of Science and Technology, Klosterneuburg, Austria

2022 Guest lecture on attention (Wayne Wu), Carnegie Mellon University, Pittsburgh, PA
Basal Ganglia Gordon Research Conference, Ventura, CA
Neurobiology of Cognition Gordon Research Conference, Newry, ME
Summer School for Primate Cognitive Neuroscience, Bad Bevensen, Germany

2023 Departments of Neurology, Ophthalmology, Otolaryngology, and Neuroscience Division of Neuro-Visual and Vestibular Disorder, Johns Hopkins University, Baltimore, MD
Vision: A Platform for Linking Circuits, Perception & Behavior, Cold Spring Harbor, NY
Ernst Strüngmann Institute, Frankfurt, Germany
Rovereto Attention Workshop, University of Trento, Rovereto, Italy

MENTORING AND OUTREACH ACTIVITIES

Predoctoral Mentees:

Dorion Liston (2000 – 2005). UCSD graduate student that studied the mechanisms underlying the timing and accuracy of pursuit and saccade choices, and the role of the superior colliculus in saccade choices. Left in June 2005 for post-doctoral position at NASA Ames Research Center.

Christopher Carello (2001 – 2005). UCSD graduate student that studied the causal relationship between superior colliculus activity and pursuit and saccade choices. After graduating in December 2005, he did a short post-doc in my lab before joining the Sleep Research Training Program at Harvard Medical School in July 2006.

Lee Lovejoy (2003 – 2009). MD/PhD student at UCSD that studied the role of the superior colliculus in the control of spatial attention. After graduating in December 2009, he did a short post-doc before returning to medical school in June 2010. Current position: Postdoctoral Clinical Fellow in the Department of Psychiatry and Assistant in Clinical Psychiatry, Columbia University.

Shaun Mahaffy (2006 – 2010). UCSD graduate student that studied the role of the frontal cortex in controlling voluntary pursuit and saccadic eye movements. After graduating in 2010, he entered Yale Law School.

Sam Nummela (2005 – 2010). UCSD graduate student that studied the role of the superior colliculus in visual target selection tasks involving eye movements and manual responses. After graduating, he joined the lab of Kristina Nielsen at Johns Hopkins University.

Sheridan Goldstein (2018 – 2020). NIH postbaccalaureate student that studied stimulus-driven visual selective attention in mice. Left NIH to enter the Interdepartmental Neuroscience Graduate Program at Northwestern University.

Mateus Cruz (2020). Ph.D. student at the University of Sao Paulo under Dr. Gilberto Xavier who obtained a CAPES fellowship to do research at NIH on endogenous and exogenous mechanisms of visual attention in mice. Obliged to return to Brazil in early 2020 due to the pandemic.

Hannah Goldbach (2021 – present). NIH-Brown University GPP student investigating the visual pathways through the basal ganglia in the mouse and their roles in visual learning. Co-mentored with Dr. Veronica Alvarez (NIAAA).

Sarah Preuss (2022 – 2023). NIH postbaccalaureate student studying circuits underlying visual attention in the mouse.

Samantha Sutcliffe (2023 – present). NIH postbaccalaureate student studying striatal circuits and dopamine transmission underlying visual learning in the mouse.

Postdoctoral Mentees:

Scott Adler (1998 – 2000). Studied the effects of prior information on the selection of targets for pursuit and saccades in humans. Left in August 2000 to take a position as an assistant professor at York University in Toronto, Canada. Current position: Associate Professor, Department of Psychology, York University; Director, Visual and Cognitive Development Project.

Jagdeep Bala (1998 – 2000). Studied the mechanisms of target selection and release of fixation in human and non-human primates. Left in September 2000 to take a post-doctoral position in the laboratory of Dr. Paul Dassonville at the University of Oregon. Current position: Adjunct Instructor, Department of Psychology, University of Oregon.

Laurent Madelain (2000 – 2002). Studied the effects of operant conditioning and attention on the sensorimotor processes underlying pursuit and saccadic eye movements. Left in October 2002 to take a position as Maître de Conférence in Psychology at the Université de Lille in France. Current position: Professeur des universités (highest rank), Université de Lille III.

Garth Fowler (2002 – 2005). Studied the effects of attentional shifts on pursuit and saccadic eye movements, and the role of the superior colliculus in these phenomena. Left in June 2005 to take

a position with the American Association for the Advancement of Science (AAAS), and later, Associate Chair and Director, Department of Neurobiology and Physiology, Northwestern University.

Leanne Chukoskie (2002 – 2006). Studied the mechanisms underlying visual search, and the effects of search context on neurons in the superior colliculus. After leaving the lab, she was recruited to be the Assistant Director for Science Communication and Special Projects, Autism Speaks; Project Scientist, University of California, San Diego.

Ziad Hafed (2003 – 2009). Studied the role of the superior colliculus in the control of microsaccades and smooth pursuit eye movements. Left in October 2009 to take a position as Assistant Professor at University of Tübingen, Germany. Current position: Tenured Professor, University of Tübingen.

Alexandre Zenon (2008 – 2011). Studied how superior colliculus activity influences sensory responses and attentional modulation of activity in cerebral cortex. Current position: Research Associate (HDR), Institut de Neurosciences Cognitives et Intégratives d'Aquitaine.

Kristina Nielsen (2006 – 2011). Developed the use of viral vectors to selectively manipulate the activity of neurons in the awake behaving non-human primate. Current position: Associate Professor of Neuroscience (tenured) at the Johns Hopkins University School of Medicine and member of the Zanvyl Krieger Mind/Brain Institute.

Anushree Karnik (2010 – 2011). Studied how superior colliculus activity influences salience-related activity in cerebral cortex.

Fabrice Arcizet (2012 – 2016). Investigated the role of the caudate nucleus during the performance of visual spatial attention tasks. Current position: Research Fellow, Institut de la Vision, Paris, France.

Anil Bollimunta (2011 – 2017). Studied how superior colliculus activity influences visual signal processing and attentional modulation in frontal cortex. Current position: Research Scientist, Inscopix, Inc.

Amar Bogadhi (2012 – 2018). Identified neural circuits implicated in the control of spatial attention using functional imaging. Current position: Staff Scientist, Max Planck Institute for Biological Cybernetics, Tübingen, Germany.

James Herman (2012 – 2021). Studied how activity in the superior colliculus contributes to the control of visual spatial attention. Current position: Assistant Professor in the Department of Ophthalmology, University of Pittsburgh (as of March 2021).

Lupeng Wang (2012 – 2021). Studied neuronal mechanisms of visual selection and spatial attention in the mouse. Current position: Staff Scientist, National Institute of Ageing (NIA).

Leor Katz (2017 – present). Investigating the role of cortical area fSTS in selective attention and object recognition.

Gongchen Yu (2019 – present). Investigating the interaction between microsaccades and attention-related modulation of neuronal activity.

Kara Cover (2021 – present). Investigating visual pathways through basal ganglia in the mouse and their role in visual attention.

Divya Subramanian (2022 – present). Investigating interactions between cortical and subcortical visual circuits.

External examiner for Ph.D. students (since 2011):

Michele Cox (advisor: Alexander Maier), Vanderbilt University, 2017

Jean-Bernard Damasse (advisors: Anna Montagnini, Laurent Perrinet), Institut de Neurosciences de la Timone, 2018

Florian Schmidt (advisor: Maximilian Jösch), IST Austria, 2021

Other mentoring and outreach-related activities:

Vision: A Platform for Linking Circuits, Perception and Behavior, (2015, 2017, 2019)
Lecturer and discussion leader on topics: visual attention and goal-directed behavior
Multi-day intensive sessions with graduate students and postdoctoral fellows
Cold Spring Harbor Laboratory, NY

Scholar-in-Residence, 2015
Vision Sciences and Systems & Integrative Biology Graduate Program Retreat
2-day visit mentoring/advising graduate students
University of Pennsylvania, PA

Provost Research Studio, 2017
External academic advisor for junior faculty member
2-day visit with Dr. Anita Disney and her research team, and Vanderbilt faculty
Department of Psychology, Vanderbilt University, TN

Primate Cognitive Neuroscience Summer School, 2019, 2022
Lecturer and discussion leader
1-week intensive daily sessions with international graduate students and postdoctoral fellows
Bad Bevensen, Germany

Outreach to students from traditionally underrepresented groups, 2021-
Coordinating with Rita Devine and Yvette Pittman (NINDS) to contact undergraduates at colleges that historically serve underrepresented groups and to recruit candidates for summer internships and postbaccalaureate positions at the LSR

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Salk Adjunct Service/Contributions Form

Name: Rich Krauzlis **Appointment Start Date:**
Sponsors: John Reynolds, Terry Sejno

To be eligible for appointment and reappointment in the Adjunct series, appointees are expected to be engaged in **at least two** Institute-related activities outlined below. If you are being considered for your first Adjunct Professor appointment, provide information about your plans to engage in the Salk community and select any of the activities you would be interested in below. If you are being considered for reappointment, select your ongoing activities and give a brief summary of your engagement in each activity during the past appointment period. Also provide a summary of your plans to engage in the Salk activities during the next appointment period.

Salk Activities (list the course/seminar titles, committees, and student names if known)
** Please note research collaborations with a Salk Faculty sponsor(s) do not qualify as Institute-related activities expected for an Adjunct position*

- ■ Giving Seminars, such as those hosted by Sponsors or by the Institute
- ■ Teaching in Salk-organized courses
- ■ Serving on UCSD Student Review committees and/or Thesis Committees in Salk Labs
- ☐ Reviewing Postdoctoral and other Internal Grants
- ☐ Participating in Salk's outreach and educational efforts to recruit underrepresented minority student applicants
- ☐ Consulting on Salk scientific initiatives or multi-PI grants
- ■ Serving on Faculty Review Committees
- ☐ Promoting award and nomination opportunities for Salk Faculty
- ☐ Organizing or participating on Salk Meetings or Conferences
- ☐ Other

Salk Service Summary & Plans: Describe your plans to engage in the activities marked above during the next appointment period (i.e.: Salk Course or Seminar Titles, names of Student or Faculty review committee, description of contributions to grants, etc. if unable to fit above). If you are being considered for reappointment, also describe your engagement in the Salk activities during the last appointment period. You may attach a supplemental letter with these activities as needed.

I volunteer to give one or more lectures as part of the 200B Neuroscience course, based on my expertise and interests in the interactions between visual function and motor control (e.g., eye movements), and the cortical and subcortical brain circuits involved.

I would be glad to serve on thesis committees for graduate students in Salk Labs and/or in the UCSD Neuroscience graduate program.

I welcome the opportunity to serve on Faculty Review Committees, or other Salk committees where my background and expertise might be useful.

I would be delighted to give a seminar on the recent work from my laboratory and have the opportunity to share and discuss our findings with Salk faculty, researchers and students.