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ACADEMIC AND RESEARCH POSITIONS

- ◇ University of Wisconsin – Madison
 - 2021–Present* Associate Professor, Department of Neuroscience.
 - 2021–Present* Director, Neuroscience Training Program.
 - 2015–2021* Assistant Professor, Department of Neuroscience.
- ◇ Baylor College of Medicine
 - 2013–2015* Research Track Assistant Professor, Department of Neuroscience.
 - 2012–2013* Postdoctoral Fellow, Department of Neuroscience. Advisor: D. Angelaki
- ◇ Washington University in St. Louis
 - 2009–2012* Postdoctoral Associate, Department of Anatomy and Neurobiology.
Advisor: D. Angelaki
- ◇ Los Alamos National Laboratory
 - 2006* Graduate Student Researcher. Advisors: K. Verspoor and M. Cai
 - 2004* Post-Baccalaureate Researcher. Advisor: M. Cai

EDUCATION

- Ph.D. 2009** Computational Neuroscience, University of Chicago
Dissertation: Mechanisms of Visual Processing Underlying the Representation of Non-Fourier Image Features and Transparent Motion
Advisors: N.P. Issa, D.C. Bradley
- B.A. 2004** Liberal Arts and Sciences with an Honors Concentration in Cognitive Science (Summa Cum Laude), Wilkes Honors College of Florida Atlantic University
Thesis: The Structure of Attitudes Towards Civil Rights, Civil Liberties, and Security in Post-9/11 America
Advisor: K. Lanning

AWARDS AND HONORS

- ◇ **Vilas Associates Award**, UW–Madison (2020)
- ◇ **Wisconsin Alumni Research Foundation (WARF) Innovation Award Finalist** (6 finalists were selected from 342 patents; 2019)
- ◇ **McPherson Eye Research Institute Visiting Scholar Award (w/C.L. Baker)** (2019)
- ◇ **Shaw Scientist Award**, Greater Milwaukee Foundation (2018)
- ◇ **Ripple Travel Award to the Society for Neuroscience Meeting** (2017)
- ◇ **Rank Prize Funds Award for Best Contributed Paper** (2016)
- ◇ **Vice Chancellor for Research and Graduate Education (VCRGE) Travel Award** (2016)
- ◇ **Travel Award to the Japan Neuroscience Society Meeting**, Society for Neuroscience (5 were awarded across Canada, Mexico, and the United States; 2013)
- ◇ **Cosyne Meeting Travel Grant** (2013)
- ◇ **Best Postdoctoral Talk**, 23rd Annual Rush and Helen Record Neuroscience Forum (2013)
- ◇ **Selected Talk**, 7th Annual Postdoctoral Scientific Symposium, Wash. U. in St. Louis (2011)
- ◇ **Harry Ginsburg Memorial Prize in Physiology**, University of Chicago (2010)
- ◇ **Best Poster Award**, University of Chicago Neuroscience Retreat (2008)
- ◇ **Best Poster Award**, 16th Annual Computational Neuroscience Meeting (2007)

AWARDS AND HONORS, CONTINUED

- ◇ **8th Annual Neuroscience Day Poster Winner**, University of Chicago (2006)
- ◇ **7th Annual Neuroscience Day Poster Winner**, University of Chicago (2005)
- ◇ **Class Valedictorian**, Wilkes Honors College (2004)
- ◇ **Outstanding Thesis Award**, Wilkes Honors College (2004)
- ◇ **Phi Kappa Phi Scholars Award**, Florida Atlantic University (2004)
- ◇ **University Honors Scholar**, Florida Atlantic University (2002)
- ◇ **International Baccalaureate Diploma** (2000)

TRAINING GRANTS, SCHOLARSHIPS, AND FELLOWSHIPS

- 2021–Present Neuroscience Training Program (NIH T32 NS105602). Director/PI.
- 2016–2018 Alfred P. Sloan Research Fellowship in Neuroscience (FG-2016-6468).
- 2009–2010 Vision Science Training Grant (NIH T32 EY13360): **Neural mechanisms of 3D orientation tuning and orientation constancy.**
- 2007–2008 Department of Homeland Security Dissertation Grant.
- 2005–2007 Department of Homeland Security Graduate School Fellowship.
- 2003–2004 Department of Homeland Security Undergraduate Scholarship.

ACTIVE RESEARCH GRANTS

- 2022–2026 Department of Defense Grant: **Identify neuronal signatures that distinguish FXS patients with distinct EEG phenotypes.** Role: Co-I (PI: X. Zhao)
- 2022–2027 NIH–Office of the Director P51 OD011106: **Wisconsin National Primate Research Center Support.** The WNPRC’s mission is to increase our understanding of basic primate biology and to improve human and animal health and quality of life through research. The main objectives of the Neuroscience Working Group, of which I am co-Chair, are to understand pathways governing normal brain function, to determine the etiology of diseases in the central nervous system, and to find effective tools for their treatment and cure. Role: Co-I (PI: S.A. Ackerman)
- 2020–2022 Wisconsin National Primate Research Center Pilot Project Grant: **A novel freely moving macaque preparation for studying the neural basis of navigation.** This work is building the foundation of a new approach to conducting naturalistic studies with NHPs that can impact a breadth of neuroscience topics such as learning and memory, navigation, and motor control. Role: PI (MPIs: B. Kim & C. Varela)
- 2018–2023 NIH–NEI R01 EY029438: **Hierarchical cortical circuits implementing robust 3D visual perception.** These studies combine high-density electrophysiological recordings across multiple brain areas, diffusion tensor imaging, and an eight-alternative perceptual task to elucidate cortical networks underlying 3D visual perception. Role: PI
- 2018–2023 NIH–NINDS R01 NS105200: **Integration of experience-induced gene expression and circuit functions.** These studies combine behavioral adaptation in mice, genomics, patch clamp recordings, hVOS imaging, and computational modeling to investigate how experience-induced gene expression modifies neural circuit function to shape behavior. Role: Co-I (MPIs: X. Zhao & M. Jackson)

COMPLETED RESEARCH GRANTS

- 2020–2021 McPherson Eye Research Institute Expanding Our Vision 2020 Pilot Grant. **Hierarchical cortical processing of three-dimensional visual motion.** These studies combined high-density electrophysiological recordings across multiple brain areas and a perceptual task to elucidate the cortical network underlying 3D visual motion perception. Role: PI

- 2020–2021 UW Institute for Clinical and Translational Research Novel Methods Pilot Grant: **High-precision immersive robotic environment for sensorimotor training.** This work explored the use of combined VR- and robotic-based sensorimotor training for balance rehabilitation in patients with vestibular deficits. Role: Co-I (PI: K. Gruben)
- 2017–2019 Wisconsin National Primate Research Center Pilot Project Grant: **Optical imaging of functional maps in the dorsal visual pathway of marmosets.** This grant supported the development of an optical imaging (intrinsic signals & flavoprotein autofluorescence) rig for investigating the functional organization of visual feature selectivity within the dorsal visual pathway of the common marmoset. Role: Co-PI (PI: X. Huang)
- 2016–2019 Whitehall Foundation Research Grant 2016-08-18: **Elucidating the neural circuit of 3D visual perception.** These studies combined neuronal recordings from multiple brain areas with computational modeling to investigate how perspective and stereoscopic cues are integrated to achieve robust 3D visual perception. Role: PI
- 2016–2018 UW Institute for Clinical and Translational Research Pilot Grant UL1TR000427: **Computational predictors of learning and neurobiology in autism.** These studies investigated how alterations in neural circuitry affect learning in autism spectrum disorders using a combination of psychophysical experiments, neuroimaging, and computational modeling. Role: PI (Co-PI: B. Travers)
- 2014–2017 NIH-NIDCD R03 DC014305: **Vestibular contribution to the encoding of object orientation relative to gravity.** These studies investigated how gravitational signals detected by the vestibular and proprioceptive systems reshape visual information to create an earth-vertical representation of the world. Role: PI

CONSULTING

- ◇ Gain Sight, Inc. Madison, WI.

PROFESSIONAL AFFILIATIONS

- ◇ **Vision Research Training Program, UW–Madison** (since 2020)
- ◇ **Department of Biomedical Engineering, Affiliate Faculty, UW–Madison** (since 2020)
- ◇ **Waisman Center, Affiliate Investigator** (since 2019)
- ◇ **UW Institute for Clinical and Translational Research** (since 2016)
- ◇ **McPherson Eye Research Institute** (since 2015)
- ◇ **UW–Madison Neuroscience Training Program** (since 2015)
- ◇ **UW–Madison Physiology Graduate Training Program** (since 2015)
- ◇ **Faculty of 1000, Associate Member** (since 2009)
- ◇ **Vision Sciences Society** (since 2007)
- ◇ **Society for Neuroscience** (since 2005)

PROFESSIONAL SERVICES

- ◇ **Ad hoc Manuscript Review:** *Behavioral Sciences of Terrorism and Political Aggression, Cerebral Cortex, Cosyne, Current Biology, eLife, Frontiers in Psychology, Journal of Neurophysiology, Journal of Neuroscience, Journal of Vision, Nature, Nature Neuroscience, Neural Plasticity, PLoS ONE, Psychological Review, and Scientific Reports.*
- ◇ **Ad hoc NIH Review:**
 - Sensory & Motor Neuroscience, Cognition & Perception Fellowship (F02B) Study Section (2022)
 - Perceptual, Visual, Motor, & Cognitive Processes (Member Conflict Special Emphasis Panel) Study Section (2021)
- ◇ **Task Force to Examine Integration of Graduate Program Activities, UW–Madison** (2021–2022)
- ◇ **Director, Neuroscience Training Program** (2021–Present)

- ◇ **Executive Committee, Wisconsin National Primate Research Center** (2021–Present)
- ◇ **Co-Chair, WNPRC Neuroscience Working Group** (2021–Present)
- ◇ **Grant Reviewer, UW2020** (2020)
- ◇ **Vet Search Committee, WNPRC** (2020)
- ◇ **Steering Committee, Neuroscience Training Program** (Faculty Elected Member, 2019–2021)
- ◇ **Recruitment Committee, Neuroscience Training Program** (2019–2021)
- ◇ **Vet Search Committee, WNPRC** (2019)
- ◇ **Center Review Committee, WNPRC** (2018)
- ◇ **Faculty Search Committee, Neurology-Neuroscience Joint Position, UW–Madison** (2017)
- ◇ **Jerzy Rose Neuroscience Award Committee, UW–Madison** (2017–Present; Chair ≥ 2021)
- ◇ **Grant Reviewer, UW Institute for Clinical and Translational Research Pilot Award** (2017)
- ◇ **Research Committee, McPherson Eye Research Institute** (2016–2019)
- ◇ **Admissions Committee, Physiology Graduate Training Program** (2016–2018)
- ◇ **Faculty Liaison, Physiology Graduate Training Program Review, UW–Madison** (2016)
- ◇ **Grant Reviewer, Computational and Integrative Biomedical Research Center, Baylor College of Medicine** (2013)
- ◇ **Neurobiology, Pharmacology, Physiology, and Computational Neuroscience Scientific Retreat Planning Committee, University of Chicago** (2005)

TEACHING

- ◇ **Ocular Pathologies and the Mammalian Visual System, UW–Madison.**
- ◇ **Experimental Design and Statistical Methodology** (Course Director), UW–Madison.
- ◇ **Systems Neuroscience, UW–Madison.**
- ◇ **Psychology of Perception, UW–Madison.**
- ◇ **Computational Methods in Neuroscience I & II** (Course Director), Baylor College of Medicine.
- ◇ **Introduction to Systems Neuroscience, Baylor College of Medicine.**
- ◇ **Fundamental Neuroscience Systems, Rice University.**
- ◇ **Cellular Neurobiology, University of Chicago.**
- ◇ **Computational Biology, University of Chicago.**
- ◇ **College Algebra, Florida Atlantic University.**

MENTORING

Research Scientists

- ◇ Byoungsoon Kim (UW–Madison, 2016–Present)

Postdoctoral Fellows

- ◇ Ting-Yu Chang (UW–Madison, 2021–2022)
- ◇ L. Caitlin Elmore (Baylor College of Medicine, 2013–2015)

Graduate Students

- ◇ Zikang Zhu (UW–Madison, 2021–Present)
- ◇ Raymond Doudlah (UW–Madison, 2017–Present)
- ◇ Lowell Thompson (UW–Madison, 2016–Present)
- ◇ Ting-Yu Chang (Ph.D. in Physiology; UW–Madison, 2021)

Thesis Committees

- ◇ Spencer Cooke (PI: C. Berridge; UW–Madison)
- ◇ Bikalpa Ghimire (PI: X. Huang; UW–Madison)
- ◇ Katherine Scheuer (PI: M. Jackson; UW–Madison)
- ◇ Sounak Mohanta (PI: Y. Saalman; UW–Madison)
- ◇ Anjani Chakrala (PI: X. Huang; UW–Madison)
- ◇ Steven Wiesner (Ph.D. in Physiology; PI: X. Huang; UW–Madison, 2021)
- ◇ Colin Grove (Ph.D. in Clinical Investigation; PIs: B. Heiderscheidt & M. Pyle; UW–Madison, 2020)
- ◇ Mohan Ji (M.S. in Psychology; PI: B. Rokers; UW–Madison, 2017)

COMMUNITY OUTREACH

- ◇ **Neuroscience Workshop for Nursing Students**, Centro Hispano, Madison, WI. (2016)
- ◇ **Introduction to Neuroscience Short Course for the Juventud Summer STEM Program**, Centro Hispano, Madison, WI. (2016)
- ◇ **Can You Believe Your Eyes? Host for the MERI Visual Illusions Station at the Annual Science Expeditions Event**, Wisconsin Institutes for Discovery, Madison, WI. (2016)
- ◇ **Brain Awareness Week Lecturer on the Neuro-Computational Underpinnings of Autism**, UW–Madison, Madison, WI. (2016)
- ◇ **“Teaching Students to Think Scientifically” Workshop for Professors**, Lingaya’s University, Haryana, India (2015)
- ◇ **“So You Want to Build a Cylon?” Neuroscience Panelist at Comicpalooza/Galacticon 3**, Houston, TX. (2013)
- ◇ **Brain Awareness Week Lecturer on 3D Vision**, Rice University (2013)

PATENTS

U.S. Patent: **Apparatus for detection of early-stage glaucoma and other optic nerve diseases**. Filed April 3rd, 2020.

U.S. Patent: **Apparatus for evaluating contextual learning**. Filed July 29th, 2019.

RESEARCH ARTICLES

R. Doudlah, T.Y. Chang, B. Kim, A. Sunkara, L.W. Thompson, & **A. Rosenberg**. Parallel processing, hierarchical transformations, and sensorimotor associations along the ‘where’ pathway. *Under Review*

A.L. Ramirez Hernandez, L.W. Thompson, **A. Rosenberg**, & C.L. Baker. Behavioral signatures of Y-like neuronal responses in human vision. *Under Review*

L.W. Thompson, B. Kim, Z. Zhu, B. Rokers, & **A. Rosenberg**. Perspective cues make eye-specific contributions to 3-D motion perception. *Journal of Cognitive Neuroscience*, 34(1): 192-208, 2021.

E. Baeg, R. Doudlah, R. Swader, H. Lee, M. Han, S.G. Kim, **A. Rosenberg**, & B. Kim. MRI compatible, customizable, and 3D-printable microdrive for neuroscience research. *eNeuro*, 8(1): 1-13, 2021.

T.Y. Chang, R. Doudlah, B. Kim, A. Sunkara, L.W. Thompson, M. Lowe, & **A. Rosenberg**. Functional links between sensory representations, choice activity, and sensorimotor associations in parietal cortex. *eLife*, 9: e57968, 2020.

J.M. Fulvio, M. Ji, L.W. Thompson, **A. Rosenberg**, & B. Rokers. Cue-dependent effects of VR experience on motion-in-depth sensitivity. *PLoS ONE*, 15(3): e0229929, 2020.

T.Y. Chang, L.W. Thompson, R. Doudlah, B. Kim, A. Sunkara, & **A. Rosenberg**. Optimized but not maximized cue integration for 3D visual perception. *eNeuro*, 7(1): 1-18, 2020.

L.C. Elmore, **A. Rosenberg**, G.C. DeAngelis, & D.E. Angelaki. Choice-related activity during visual slant discrimination in macaque CIP but not V3A. *eNeuro*, 6(2): e0248, 1-16, 2019.

L.W. Thompson, M. Ji, B. Rokers, & **A. Rosenberg**. Contributions of binocular and monocular cues to motion-in-depth perception. *Journal of Vision*, 19(3):2, 1-16, 2019.

B. Kim, S.C. Kenchappa, A. Sunkara, T.Y. Chang, L. Thompson, R. Doudlah, & **A. Rosenberg**. Real-time experimental control using network-based parallel processing. *eLife*, 8: e40231, 2019.

A. Rosenberg, J.S. Patterson, & D.E. Angelaki. A computational perspective on autism. *Proceedings of the National Academy of Sciences*, 112(30): 9158-9165, 2015. • [Altmetric](#).

- [Medical Xpress Article](#), July 20th, 2015.
- [ExtremeTech Article](#), July 25th, 2015.
- [Motherboard RSS Feed](#), July 26th, 2015.
- [Singularity Hub Article](#), August 9th, 2015.
- [Simons Foundation Autism Research Initiative News and Opinion Article](#), August 13th, 2015.
- 'A more precise look at context in autism' by Lawson, Friston, & Rees, 112(38): E5226.
- [The New Economy Article](#), October 6th, 2015.

A. Rosenberg & D.E. Angelaki. Reliability-dependent contributions of visual orientation cues in parietal cortex. *Proceedings of the National Academy of Sciences*, 111(50): 18043-18048, 2014. • [Altmetric](#).
• [Biomedical Picture of the Day](#), Jan. 9th, 2015.

A. Rosenberg & D.E. Angelaki. Gravity influences the visual representation of object tilt in parietal cortex. *Journal of Neuroscience*, 34(43): 14170-14180, 2014.

A. Rosenberg, N.J. Cowan, & D.E. Angelaki. The visual representation of 3D object orientation in parietal cortex. *Journal of Neuroscience*, 33(49): 19352-19361, 2013.

A. Rosenberg & N.P. Issa. The Y cell visual pathway implements a demodulating nonlinearity. *Neuron*, 71(2): 348-361, 2011. • [F1000 Review by M. Jamali and K. Cullen](#)

A. Rosenberg, T.R. Husson, & N.P. Issa. Subcortical representation of non-Fourier image features. *Journal of Neuroscience*, 30(6): 1985-1993, 2010.

K. Lanning & **A. Rosenberg**. The dimensionality of American political attitudes: Tensions between equality and freedom in the wake of September 11. *Behavioral Sciences of Terrorism and Political Aggression*, 1(2): 84-100, 2009.

A.K. Mallik, T.R. Husson, J.X. Zhang, **A. Rosenberg**, & N.P. Issa. The organization of spatial frequency maps measured by cortical flavoprotein autofluorescence. *Vision Research*, 48(14): 1545-1553, 2008. • [Journal cover art](#).

A. Rosenberg, P. Wallisch, & D.C. Bradley. Responses to direction and transparent motion stimuli in area FST of the macaque. *Visual Neuroscience*, 25(2): 187-195, 2008.

J.X. Zhang, **A. Rosenberg**, A.K. Mallik, T.R. Husson, & N.P. Issa. The representation of complex images in spatial frequency domains of primary visual cortex. *Journal of Neuroscience*, 27(35): 9310-9318, 2007.

BOOK CHAPTERS, COMMENTARIES, AND REVIEWS

A. Rosenberg, L.W. Thompson, R. Doudlah, & T.Y. Chang. Perspectives on 3D vision. *Annual Review of Vision Science*, Forthcoming.

A. Rosenberg & A. Sunkara. Does attenuated divisive normalization affect gaze processing in autism spectrum disorder? A commentary on Palmer et al. (2018). *Cortex*, 111: 316-318, 2019.

C.J. Dakin & **A. Rosenberg**. Gravity estimation and verticality perception. In: *Handbook of Clinical Neurology: Balance, Gait, and Falls*. Eds. B.L. Day and S.R. Lord. Elsevier, 159(3rd Series): 43-59, 2018.

A. Rosenberg, J.S. Patterson, & D.E. Angelaki. A synergistic approach to mental health research. *Proceedings of the National Academy of Sciences*, 112(38): E5227, 2015. • [Altmetric](#).

R.L. Seilheimer, **A. Rosenberg**, & D.E. Angelaki. Models and processes of multisensory cue combination. *Current Opinion in Neurobiology*, 25: 38-46, 2014.

C.J. Dakin, L.C. Elmore, & **A. Rosenberg**. One step closer to a functional vestibular prosthesis. *Journal of Neuroscience*, 33(38): 14978-14980, 2013.

N.P. Issa & **A. Rosenberg**. Tartini's devil: Peripheral mechanisms that underlie sensory illusions. In: *A field guide to a new meta-field: Bridging the humanities-neurosciences divide*. Ed. B. Stafford. University of Chicago Press, 2011.

A. Rosenberg & V. Talebi. The primate retina contains distinct types of Y-like ganglion cells. *Journal of Neuroscience*, 29(16): 5048-5050, 2009.

N.P. Issa, **A. Rosenberg**, & T.R. Husson. Models and measurements of functional maps in V1. *Journal of Neurophysiology*, 99(6): 2745-2754, 2008.

TALKS

Parallel and hierarchical processing supporting 3D vision and visuomotor function. Vision Research Center, University of Pennsylvania. Philadelphia, PA. March 28th, 2022.

Neuro-computational basis of contextual learning differences in autism. Mohammed bin Rashid Center for Special Education (The New England Center for Children), Abu Dhabi, United Arab Emirates. January 20th, 2022.

Neuro-computational basis of contextual learning differences in autism. New York University – Abu Dhabi, Abu Dhabi, United Arab Emirates. January 19th, 2022.

The past, present, and future of NHP vision research. Vision Research Training Curriculum Retreat, UW–Madison, Madison, WI. October 19th, 2021.

Functional links between sensory representations, choice activity, and sensorimotor associations. McGill Vision Research Group Seminar, McGill University, Montreal, Canada. April 9th, 2021.

Perceiving what we cannot sense: Insights from 3D vision. McPherson Eye Research Institute, MERI-At-A-Glance. UW–Madison, Madison, WI. February 26th, 2021.

Functional links between sensory representations, choice activity, and sensorimotor associations. Primate Center Neuroscience Seminar, UW–Madison, Madison, WI. December 18th, 2020.

Functional links between sensory representations, choice activity, and sensorimotor associations. Department of Neuroscience Seminar, UW–Madison, Madison, WI. November 4th, 2020.

C.R. Grove, **A. Rosenberg**, S.L. Whitney, B.C. Heiderscheid, G.M. Pyle, J.N. Bartloff, and K.G. Gruben. *Development and implementation of a high-precision immersive robotic environment for sensorimotor rehabilitation to reduce dizziness and improve balance*. Managing Balance and Mobility Phenotypes Using Next Generation Technologies: Artificial Intelligence, Biomechanical Sensing, and Beyond, Madison, WI. October 30th, 2020.

Neuro-computational underpinnings of context-based learning differences in ASD. Florida Atlantic University, Jupiter, FL. October 6th, 2020.

Stratification of ASD based on contextual learning. McPherson Eye Research Institute. UW–Madison, Madison, WI. March 10th, 2020.

Neuro-computational basis of contextual learning differences in autism. University of Nevada, Reno, NV. March 6th, 2020.

Neuro-computational underpinnings of context-based learning differences in ASD. Psychology Colloquium Series. UW–Madison, Madison, WI. January 30th, 2020.

From genetics to behavior: Potential of an FX marmoset. Midwest Fragile X Research Exchange. Madison, WI. February 4th, 2019.

Neuro-computational underpinnings of individual differences in autism spectrum disorders. John D. Wiley Seminar Series. Waisman Center, Madison, WI. January 18th, 2019.

Perceiving what we cannot sense: Insights from 3D vision. Center for Brains, Minds, and Machines Seminar Series. Massachusetts Institute of Technology, Boston, MA. November 30th, 2018.

A. Rosenberg, A. Sunkara, H. Jiang, T.Y. Chang, B. Kim, K. Sabel, S. Jacquot, A. Dinges, and B. Travers. *Diminished contextual learning in autism spectrum disorders.* Vision Sciences Society, St. Pete's Beach, FL. May 22nd, 2018.

Neuro-computational underpinnings of autism. Brain and Bagels Seminar. UW–Madison, Madison, WI. March 9th, 2018.

Neuro-computational underpinnings of altered contextual processing in autism. University of Toronto Interdisciplinary Symposium on the Mind. Toronto, Canada. February 3rd, 2018.

Living in stereo: Cortical networks and computations for 3D visual perception. University of Chicago, Chicago, IL. January 18th, 2018.

Career trajectories in modern academia: Navigating the smoothest course possible. University of Chicago, Chicago, IL. January 17th, 2018.

How can 'big data' approaches help neuroscience? Data Sciences and their Research Challenges Workshop, Lingaya's University. Haryana, India. January, 1st, 2018.

Living in stereo: The neural basis of 3D visual perception. David Mahoney Center for Brain and Behavior Research, Columbia University, New York, NY. March 24th, 2017.

A computational perspective on altered visual cognition in autism. McPherson Eye Research Institute. UW–Madison, Madison, WI. January 10th, 2017.

Neural processing of contextual visual information in health and disease. Brain and Bagels Seminar. UW–Madison, Madison, WI. September 30th, 2016.

Living in stereo: The integration of perspective and disparity signals in 3D vision. The Rank Prize Funds Symposium on Seeing the World from More than One Perspective, Wordsworth Hotel, Grasmere, United Kingdom. September 7th, 2016.

The neural basis of 3D visual orientation perception. Wilkes Honors College, Jupiter, FL. May 19th, 2016.

A. Rosenberg and D.E. Angelaki. *Integration of perspective and disparity cues in the neural representation of 3D object orientation.* Vision Sciences Society, St. Pete's Beach, FL. May 14th, 2016.

What neural network models can teach us about autism. Brain Awareness Week Lecture Series, UW–Madison, Madison, WI. March 14th, 2016.

Integration of visual and vestibular signals in the neural representation of 3D object orientation. Primate Center Neuroscience Seminar, UW–Madison, Madison, WI. February 19th, 2016.

Neural correlates of 3D visual perception. Biology of Brain and Behavior Seminar, Department of Psychology, UW–Madison, Madison, WI. December 14th, 2015.

A computational perspective on autism. Waisman Center and Allen Institute for Brain Science Neuroscience Symposium, UW–Madison, Madison, WI. October 16th, 2015.

A. Rosenberg and A. Sunkara. *Teaching students to think scientifically.* Lingaya's University. Haryana, India. September, 21st, 2015.

Living in stereo: The neural basis of 3D vision. Montreal Neurological Institute and Hospital, McGill University, Montreal, Canada. April 23rd, 2015.

Living in stereo: The neural basis of 3D vision. Baylor College of Medicine, Houston, TX. April 17th, 2015.

Living in stereo: The neural basis of 3D vision. UW–Madison, Madison, WI. March 9th, 2015.

Moving beyond 2D vision: Neural computation of 3D object representations. The 4th Annual Symposium of the Gulf Coast Cluster for NeuroEngineering, Houston, TX. October 27th, 2014.

The visual representation of 3D object pose in parietal cortex. National Institute of Physiological Sciences, Okazaki, Japan, July 25th, 2014.

The visual representation of 3D object pose in parietal cortex. Kyoto University, Kyoto, Japan, July 23rd, 2014.

Neural correlates of 3D spatial perception in parietal cortex. The 10th Asia-Pacific Conference on Vision, Takamatsu, Japan, July 20th, 2014.

The visual representation of 3D object pose in parietal cortex. University of Texas at Austin, Austin, TX. February 21st, 2014.

Cue-integration in the visual encoding of 3D object pose. Osaka University, Osaka, Japan, June 24th, 2013.

A. Rosenberg and D.E. Angelaki. *Neural mechanisms of visual orientation constancy.* 36th Annual Japan Neuroscience Society Meeting, Kyoto, Japan, June 20th, 2013.

Visual cue-integration in the neural encoding of 3D object orientation. Juntendo University, Tokyo, Japan, June 18th, 2013.

Multisensory integration in the visual encoding of 3D object orientation. Brain Awareness Week Lecture Series, Rice University, Houston, TX. March 16th, 2013.

A. Rosenberg and D.E. Angelaki. *Neural correlates of visual orientation constancy.* Cosyne, Salt Lake City, UT. February, 2013.

A. Rosenberg and D.E. Angelaki. *Neural mechanisms of visual orientation constancy.* 23rd Annual Rush and Helen Record Neuroscience Forum, Galveston, TX. February, 2013.

Multisensory cue-integration and the encoding of 3D object orientation in Macaque parietal cortex. Baylor College of Medicine, Houston, TX. January 9th, 2013.

Visual cue-integration and the encoding of 3D object orientation in Macaque parietal cortex. Baylor College of Medicine, Houston, TX. January 4th, 2013.

Neural loci of sensory illusions: How we interpret art and music. Department of Biomedical Engineering, Georgia Institute of Technology, Atlanta, GA. April 11th, 2012. Neuro-Humanities Entanglement Conference, Georgia Institute of Technology, Atlanta, GA. April 12th, 2012.

Nonlinear image analysis and 3D spatial processing in the mammalian visual system. American University, Washington, DC. February 9th, 2012.

A. Rosenberg, D.E. Angelaki., and N.J. Cowan. *Model spaces and tuning functions for the visual encoding of 3D object orientation.* Johns Hopkins University, Baltimore, MD. October 26th, 2011.

A. Rosenberg and D.E. Angelaki. *Neural mechanisms of 3D orientation tuning and orientation constancy.* 7th Annual Postdoctoral Scientific Symposium, Washington University in St. Louis, St. Louis, MO. March 29th, 2011.

A nonlinear coding scheme in the early visual system. Los Alamos National Laboratory, Los Alamos, NM. August 25th, 2010.

Two ways of seeing: The functional roles of two early parallel visual paths. University of Chicago, Chicago, IL. May 29th, 2009.

Subcortical representation of non-Fourier image features. Washington University, St. Louis, MO. September 10th, 2008.

Subcortical representation of non-Fourier image features. Los Alamos National Laboratory, Los Alamos, NM. August 25th, 2008.

Subcortical representation of non-Fourier image features. McGill University, Montreal, Canada. August 7th, 2008.

Subcortical encoding of second-order image features. University of Chicago, Chicago, IL. June 9th, 2008.

The encoding of spatial and temporal beats by frequency-doubling neurons in the cat dLGN. Neurobiology seminar series, University of Chicago, Chicago, IL. April 23rd, 2008.

A. Rosenberg, T.R. Husson, A.K. Mallik, and N.P. Issa. *Frequency-doubling in the early visual system underlies sensitivity to second-order stimuli.* Lake Shore Visual Science Symposium, University of Chicago, Chicago IL. December 10th, 2007.

P. Wallisch, M. Goyal, M. Lusignan, **A. Rosenberg**, and D.C. Bradley. *Neural detection of object motion in frequency space.* Society for Neuroscience, San Diego, CA. November, 2007.

Subcortical processing of second-order motion. University of Chicago, Chicago IL. June 25th, 2007.

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