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EMPIRICAL PAPERS (for reprints, please visit <http://www.haydenlab.com/papers>)

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- Hayden, B. Y.**, and Platt, M. L. (2010) Risky decisions and fictive learning: case studies on the difficulties of integrating evidence from fMRI and electrophysiology in cognitive neuroscience. In *Attention and Performance*, Robbins and Delgado, editors
- Hayden, B. Y.** (2009) Neuroethology of Vision. In *Primate Neuroethology*, Platt and Ghazanfar, editors
- Heilbronner, S. R., **Hayden, B. Y.**, and Platt, M. L. (2009) Neuroeconomics of risk sensitive decision making. In *Impulsivity: The Behavioral and Neurological Science of Discounting*; Madden, Bickel, and Critchfield, editors
- Hayden, B. Y.** and Platt, M. L. (2008) Animal cognition: great apes wait for grapes. *Current Biology*
- Hayden, B. Y.** and Platt, M. L. (2008) Cingulate cortex. *New Encyclopedia of Neuroscience*, Elsevier
- Hayden, B. Y.** and Platt, M. L. (2006) Fool me once, shame on me; fool me twice, blame ACC. *Nature Neuroscience*

ACTIVE GRANTS

- *Posterior cingulate cortex and executive control of memory.*
Role: Co-PI (With Brett Foster, University of Pennsylvania). NIH R01 MH129439 (2022-2027)
- *Neural basis of behavior in freely moving macaques*
Role: PI. NIH R01 MH125377 (2021-2026)
- *Neuronal basis of persistence*
Role: PI. NIH R01 DA038615 (2015-2025, renewed in 2020)
- *Modeling circuit-specific psychiatric deep-brain stimulation and its cognitive effects in macaques*
Role: Lead PI (with co-PI Alik Widge, Psychiatry). NIH R01 MH124687 (2020-2025)

COMPLETED GRANTS

- *Neural correlates of social states in macaques*
Role: PI (with Co-PIs Hyun Soo Park and Jan Zimmermann) NSF (2020-2025).
- *Traveling wave transcranial alternating current stimulation for control of large-scale brain networks*
NINDS R01. Role: Co-I (PI: Alexander Opitz, 2020-2025)
- *Technology to realize the full potential of ultra-high field fMRI*
NIH P40. Role: Co-I (PI: Kamil Ugurbil, 2019-2024)
- *Linking neuronal, metabolic, and hemodynamic responses across scales*
NIH R01. Role: Co-I (PI: Geoffrey Ghose, 2018-2022)
- *3D markerless pose estimation and neural measurements from freely moving rhesus monkeys*
MN Futures Program. Role: Co-PI (with Hyun Soo Park, Computer Science, 2018-2022)
- *Sex-biased impacts of 16p11.2 variants on reward-based choice*
NIMH R01. Role: Co-I (PI: Nicola Grissom, 2020-2023)
- *Center for Neural Circuits in Addiction*
NIDA P30. Role: Core director, Addiction Connectome Core. (2020-2023)
- *Using Computation to Achieve Breakthroughs in Neuroscience*
Role: PI. NIH T32 MH115886 (2019-2023)
- *Prefrontal-striatal circuit manipulation during self-control in nonhuman primates*
MDT Addiction Seed Grant Program. (with Sarah Heilbronner)
- *Neural basis of reward-based choice*
Role: PI. NIH R01 DA037229 (2015-2020)
- *Repeated cocaine exposure and striatal contributions to cognitive control*
Role: PI. R01 DA038106 (2014-2019)

- *Flexible control of reward-based decisions*
Role: PI. NSF CAREER award BCS 1253576 (2013-2018)
- *Applying a neuroeconomics paradigm for the assessment of central fatigability in an aging population*
Role: Co-I (PI: Feng Vankee Lin). NIH R21 AG053193 (2016-2018)
- *Do reward-based choices depend on neuronal simulation of possible rewards?*
Role: PI. Klingenstein-Simons Fellowship (2014-2016)
- *Center for the Origins of Cognition*
Role: PI (with Jessica Cantlon, Co-PI). University of Rochester Pump Primer (2016)
- *Future-oriented decisions in macaques*
Role: PI. Templeton Science of Prospection Award (2015-2016)
- *The Future of Visual Attention*
Role: PI. NSF conference grant (2016)
- *The Future of Visual Attention*
Role: PI. NIH R13 conference grant EY026284 (2016)
- *Dissociable roles of caudate and ventral striatum in set-shifting in monkeys*
Role: PI. NARSAD Young Investigator Award, Brain and Behavior Research Foundation (2013-2015)
- *Advanced electrodes for recording activity in striatum and prefrontal cortex*
Role: PI; Co-PI: Tatiana Pasternak (2013-2015). Schmitt Equipment Award.
- *Neural basis of choice*
Role: PI. Sloan Foundation Fellowship (2013-2015)
- *Dopamine and the role of anterior cingulate cortex in executive processes*
Role: PI. NIDA K99/R00 027718-01 (2010-2014)
- *Neural mechanisms of self-control*
Role: PI. Tourette Syndrome Association Fellowship (2010-2011)
- *The role of the posterior cingulate cortex in reward-guided decision-making*
Role: PI. NIDA Kirschstein NRSA 023338-01 (2008-2010)
- *Neural mechanisms of reward-based decision-making*
Role: Awardee. Duke Translational Neuroscience Fellowship (2005-2006)

HONORS

- Dean's Distinguished Lecture, University of Miami Miller School of Medicine (2025)
- McNair Scholar (2023)
- Best Paper Award in Psychonomic Bulletin and Review (2016). For "*The description-experience gap in risky choice in non-human primates*" from the Psychonomic Society
- Templeton Foundation Fellow in Prospection (2014). John Templeton Foundation
- Klingenstein-Simons Fellowship Award in the Neurosciences (May 2014). Klingenstein-Simons Foundation
- *Associate Member* of the American College of Neuropsychopharmacology (Dec 2013)
- NARSAD Young Investigator Award (Aug 2013) Brain and Behavior Research Foundation
- Poster selected for Data Blitz (Dec 2012). Meeting of the American College of Neuropsychopharmacology (ACNP)
- Sloan Research Fellow (Feb 2012). Sloan Foundation
- Travel Award, American College of Neuropsychopharmacology (Dec 2011). 50th Annual ACNP Conference, Waikoloa Village, Hawaii
- Outstanding poster (April, 2010). Motivational Neuronal Networks Conference, Shell Island, NC
- COSYNE Spotlight poster (March 2010). COSYNE meeting
- Young Investigator Award (Sept, 2009). Society for Neuroeconomics
- Best post-doc talk (March, 2009). Department of Neurobiology Retreat, Duke University Medical School
- Valedictorian (May, 2005). Department of Molecular and Cell Biology, University of California Berkeley

TALKS

4/25 *Generalization and specification in neurons*, NSF/NIH panel.
 4/25 *Semantics and Syntax in Single Neurons in Natural Speech*. University of Texas, Austin, TX.
 2/25 *Semantics and Syntax in Single Neurons*. University of Miami, Miami, FL.
 2/25 *Semantics and Composition in Single Neurons*. New York University, New York City, NY.
 2/25 *Semantics and Syntax in Single Neurons*. Rush Record Forum. Galveston, TX.
 1/25 *Semantics and Syntax in Single Neurons*. UC Davis, Davis CA.
 1/25 *Semantics and Syntax in Single Neurons*. UC Berkeley, Berkeley CA.
 11/24 *Naturalistic Economic Choice*. University of Houston, Houston, TX.
 09/24 *Naturalistic Economic Choice*. University of Texas Health Campus, Houston, TX.
 08/24 *Naturalistic Economic Choice*. Gordon Research Conference on Prefrontal Cortex. Holderness, NH.
 05/24 *Naturalistic Economic Choice*. Virginia Tech, Roanoke, VA.
 11/23 *Naturalistic Neuroeconomics*. George Mason University.
 05/23 *Neuroscience of curiosity*. Columbia Conference on Curiosity. New York, NY.
 04/23 *Neuroscience of naturalistic choice*. SOBP Conference, San Diego, CA.
 04/23 *Neuroscience of naturalistic choice*. Caltech, Pasadena, CA.
 12/22 *Naturalistic Decision-making*. Northwestern University.
 10/22 *Neuroscience in freely moving monkeys and humans*. Harvard University.
 03/22 *Orbitofrontal cortex in the natural world*. Oxford University.
 03/22 *New frontiers in orbitofrontal cortex research*. Imperial College London.
 03/22 *A navigational role for prefrontal regions*. University College London.
 03/22 *Big questions in animal tracking*. Brain Behavior Quantification Symposium. NIH BRAIN Initiative panel.
 02/22 *Pose tracking in primates*. Public talk at the Minnesota Zoo.
 10/21 *Monkey tracking*. SymPOSEium, University of Minnesota.
 10/21 *ACC, addiction, control*. Harvard University.
 10/21 *Posterior cingulate cortex and navigation*. Society for Neuroscience Conference. Chicago, IL.
 04/21 *The population doctrine and cognitive neuroscience*. Imperial College London.
 10/20 *Neural basis of naturalistic decisions*. Yerkes Primate Center, Emory University, Atlanta, GA.
 10/20 *Augmentation of automated image tracking algorithms*. Neuromatch 3.0.
 09/20 *Neural basis of naturalistic decisions*. Université de Montréal.
 08/20 *OpenMonkeyStudio Showcase*. Primate tracking mini-conference. University of Minnesota, MN.
 01/20 *Intracranial recordings in neurosurgical patients with free movement*. UMN Udall Center. University of Minnesota, MN.
 01/20 *Systems neuroscience*. Medtronic Short Course on Neuroscience.
 9/19 *Natural decision-making*. MIT. Cambridge, MA.
 7/19 *Curiosity and Neuroscience*. Reinforcement Learning and Decision Making Conference. Montreal, QC.
 5/19 *Curiosity and the Brain*. Templeton Meeting on Curiosity. Washington, D. C.
 4/19 *Natural decision-making*. OHSU. Portland, OR.
 4/19 *Neural basis of choice and action*. Harvard/Massachusetts General Hospital. Boston, MA.
 1/19 *Neural basis of executive control*. Brown University. Providence, RI.
 10/18 *Neural basis of choice and control*. Workshop on Computational Properties of Prefrontal Cortex. Vanderbilt University. Nashville, TN.
 9/18 *Neuroengineering and neuroeconomics*. Neuroengineering Seminar, University of Minnesota. Minneapolis, MN.
 7/18 *Embodied Neuroeconomics*. Gordon Conference on Neurobiology of Cognition, Newry, Maine.
 4/18 *Posterior Cingulate Cortex and Reward*. Baylor College of Medicine. Houston, TX.
 3/18 *Choice and choice processes*. Indiana University. Bloomington, IN.
 1/18 *Towards wireless recording in freely moving macaques*. TBSI Webinar.
 1/18 *Neural basis of reward-based choice*. University of Minnesota. Minneapolis, MN.
 10/17 *Distributed executive control*. Control Processes. Amsterdam, Netherlands.
 10/17 *Neuroscience of foraging choices*. NYU CNS department seminar. New York City, NY.
 9/17 *Neural basis of choice*. Colloquium talk. University of Minnesota. Minneapolis, MN.
 5/17 *The past and future of neuroeconomics*. Klingenstein Fellows meeting. New York City, NY.

5/17 *Circuitry for curiosity based decisions*. Origins of Cognition Symposium, RIT, Rochester, NY.
 4/17 *Neuronal foundations of value*. Cognition and Decision Seminar. Columbia University, New York, NY.
 3/17 *Neuroscience of reward-based decisions*. Albert Einstein University. New York City, NY.
 2/17 *Neuroscience of foraging decisions*. University of Rochester, department of Ecology. Rochester, NY.
 2/17 *Neuroscience of foraging decisions*. University of Chicago. Chicago, IL.
 11/16 *Distributed mechanisms of choice*. SFN Mini-Symposium (Chair/Speaker). San Diego, CA.
 10/16 *Distributed approaches to choice and executive control*. Carnegie Mellon University. Pittsburgh, PA.
 10/16 *Positive and negative in cingulate cortex*. Persistent Maladaptive Behaviors. UR. Rochester, NY
 09/16 *Micro and macro: bridging across levels in neuroeconomics*. University of Minnesota. St. Paul, MN
 08/16 *Imagination is the cure for poor self-control*. Templeton Meeting on Prospection. Philadelphia, PA.
 06/16 *Attention as a solution to the selection problem in economic choice*. CVS Symposium. Rochester, NY.
 04/16 *Demand for control reduces coding sparseness in dorsal ACC*. CNS Meeting. NYC, NY.
 03/16 *Distributed computation, economic choice, and control*. Cognitive Science Dinner, UR, Rochester, NY.
 02/16 *Circuitry for economic choice*. Department of Neurobiology, Duke University, Durham, NC. Feb 2016
 01/16 *Neural basis of economic choice*. Department of Psychology, Vanderbilt University, Nashville, TN.
 10/15 *Distributed mechanisms of economic choice*. Affective Brain Lab, UCL, London, UK
 09/15 *Representation of reward on the orbital surface*. Quadrennial Meeting on OFC, INSERM, Paris, France
 08/15 *Does economic choice involve simulation of possible rewards?* Templeton Meeting on Prospection. Philadelphia, PA
 07/15 *Neuroscience of foraging*. Duke-Kunshan Summer School in Neuroeconomics. Shanghai, China
 07/15 *Neuroscience of foraging*. NYU-Shanghai Summer School in Neuroeconomics. Shanghai, China
 03/15 *Neuroscience of economic choice*. Neurobiology and Behavior Colloquium Series, Cornell University,
 02/15 *Representation and reward*. Dept. Psychological and Brain Sciences, Johns Hopkins University
 01/15 *Representation and the reward system*. Behavior, Genetics, and Neuroscience Series, Yale University
 10/14 *Spatial selectivity in reward regions*. Workshop on Computational Properties of Prefrontal Cortex, Whistler, BC
 10/14 *Economics for monkeys*. Laboratory for Laser Energetics Science and Technology Series, Rochester N
 09/14 *Reward representation in orbitofrontal cortex*. NIA / NIDA Intramural Program, Baltimore, MD
 08/14 *Future-oriented decisions in macaques*. Templeton Conference on Prospection, Philadelphia, PA
 07/14 *Information-seeking, curiosity, and reward*. Gordon Conference on the Neurobiology of Cognition, Newry, Maine
 05/14 *Information-seeking, curiosity, and reward*. Symposium on Biology of Decision Making, Paris, France
 04/14 *Orbitofrontal cortex, Representation and Reward*. Mount Sinai Medical School, New York, NY
 11/13 *Neural basis of persistence*. SFN Minisymposium (presenter and chair), SFN meeting, San Diego, CA
 09/13 *Neural basis of self-control*. EBBS meeting, Munich, Germany
 06/13 *Eat prey, leave: neuroscience of foraging*. Decision Neuroscience Symposium, Düsseldorf, Germany
 04/13 *Economics vs. Neuroeconomics*. University of Illinois, Urbana-Champaign
 03/13 *Neuroscience of foraging*. COSYNE Workshop (organizer), Salt Lake City, UT
 03/13 *Reward and decisions*. COSYNE Workshop, Salt Lake City, UT
 03/13 *Decision-making and control*. Princeton University, Princeton, NJ
 11/12 *Why do monkeys like to gamble?* TEDxRochester, Rochester, NY
 10/12 *We don't know what we want*. Interactive Strategies 2012, Houston, TX
 09/12 *Eat, Prey, Leave: Self-control and foraging*. Clarkson University, Potsdam, NY
 09/12 *Elements of reward-based choice*. Oxford University, Oxford, UK
 09/12 *Neural basis of reward-guided decisions*. University College London, London, UK
 09/12 *Process models of decisions involving risk (and time)*. University of Warwick, Warwick, UK
 06/12 *Anterior cingulate cortex and oculomotor control*. Center Visual Science Symposium, Rochester, NY
 04/12 *Anterior cingulate cortex and oculomotor control*. UR CVS Research Talk Series, Rochester, NY
 02/12 *Why do monkeys like to gamble?* University of Rochester Phelps Colloquium Series, Rochester, NY,
 10/11 *Algorithms for value-based choice*. University of Zurich, Switzerland
 10/10 *Neural basis of foraging decisions* Brain, Mind, and Society Series, Caltech, Pasadena, CA
 09/10 *Cingulate cortex, outcomes, and behavioral adjustments*. Workshop on Prefrontal Cortex, Whistler, BC
 09/10 *Cingulate cortex, outcomes, and behavioral adjustments*. Neuro2010, Kobe, Japan

08/10 *What do ACC neurons signal?* RIKEN seminar, Tokyo, Japan
 06/10 *Neural basis of foraging decisions.* Yale University, New Haven, CT
 06/10 *What information is carried by ACC neurons?* Motivation & Cognitive Control, Oxford University, UK
 03/10 *Neural representation of fictive outcomes.* COSYNE Workshops, Snowbird, UT
 02/09 *Monitoring an uncertain world: cingulate cortex.* University of Rochester, Rochester, NY
 02/09 *Cingulate cortex: learning about rewards.* Carnegie Mellon University, Pittsburgh, PA
 02/09 *Cingulate cortex: learning about rewards.* University of Texas, Austin, TX
 01/09 *Cingulate cortex: choice and monitoring.* Dartmouth College, Hanover, NH
 07/09 *Monitoring an uncertain world: cingulate cortex.* University of Pennsylvania, Philadelphia, PA
 05/09 *Uncertainty, monitoring, and the cingulate cortex .* Yale University Medical School, New Haven, CT
 10/08 *Cingulate cortex monitors outcomes of risky decisions.* NIMH, Bethesda, MD
 07/07 *What causes risk sensitivity among primates?* Economics for Apes Conference, MPI, Leipzig, Germany
 01/05 *Attention, working memory, and decision in V4.* Oxyopia Seminar, UC Berkeley, Berkeley, CA

MENTORSHIP

Former trainees with tenure-track faculty positions:

- Becket Ebitz (Université de Montréal, Quebec, Canada), 2020
- Ruyuan Zhang (Jiao Tong University, Shanghai, China), 2020
- Seng Bum Yoo (Institute for Basic Science, Sung Kwon Kang University, Seoul, South Korea), 2021
- Rei Akaishi (RIKEN, Tokyo, Japan), 2020

Junior faculty mentorship:

- David Darrow (Neurosurgery, UMN, 2020-2023)
- Jocelyn Richard (Neuroscience, UMN, 2019-2023)
- Jan Zimmermann (Neuroscience, UMN, 2019-2023)
- Alexander Herman (Psychiatry, UMN, 2018-2023)
- Nicole Provenza (Neurosurgery, BCM, 2023-2024)

Post-docs supervised:

- Justin Fine, University of Minnesota and BCM, 2020-present
- Jeremiah Morrow, University of Minnesota, 2021-present
- Benjamin Voloh, University of Minnesota, 2020-present
- Ruyuan Zhang, University of Minnesota, 2018-2019
- R. Becket Ebitz, University of Rochester and University of Minnesota, 2017-2020
- Benjamin Eisenreich, University of Rochester and University of Minnesota, 2016-2020
- Brianna Sleezer, University of Rochester, 2016-2017
- Rei Akaishi, University of Rochester, 2016-2017
- Pragathi Priyadharsini Balasubramani, University of Rochester, 2015-2017
- Alexander Thomé, University of Rochester, 2013-2015

Graduate students supervised:

- Yuan Yao, Computer Science, University of Minnesota, 2020-2022
- David Maissou, Neuroscience, University of Minnesota, 2020-2022
- Roberto Lopez Cervera, Neuroscience, University of Minnesota, 2019-2023
- Praneeet Bala, Computer Science, University of Minnesota, 2019-2022
- Tyler Cash-Padgett, Neuroscience, University of Minnesota, 2016-2022
- Priyanka Mehta (*Sproull Fellow*), Neuroscience, University of Minnesota, 2016-2021
- Seng-Bum Yoo, Brain and Cognitive Sciences, University of Rochester, 2015-2020
- Habiba Azab, Brain and Cognitive Sciences, University of Rochester, 2014-2020
- Zhe Wang, Brain and Cognitive Sciences, University of Rochester, 2014-2020
- Shraddha Shah, Brain and Cognitive Sciences, University of Rochester, 2014-2016
- Brianna Sleezer, Neuroscience Graduate Program, University of Rochester, 2012-2016

- Caleb Strait, Brain and Cognitive Sciences, University of Rochester, 2011-2016
- Tommy Blanchard, Brain and Cognitive Sciences, University of Rochester, 2011-2015

Undergraduate students supervised (2017-present):

- Over 50, including: Afra Suri, Kyle Edmonston, Sydney Walsh, Hannah Lee, Efemona Femati, Alex Rich, Jude Goossens, Rachel Knoebel, Emily Kasprick, Salma Muftah, Preeta Pavagadhi, Collin Meyer, Emily Orr, Julia White, Kelsey Brantley, Sydney Redepinning, Elaina Seeman, Emma Rochlin, Mrunal Zambre, Eliezer Mishulovin

SERVICE

Intramural service

Committee to select new director of graduate studies for the Center for Cognitive Science (2020-2023)

Director, MDTA Speaker Series (2018-2020)

MNFutures Grant Review Committee (2020)

Member, T32 Computational Neuroscience Training Grant (2018-2023)

Chair, MDT Addiction Speaker Series. University of Minnesota. (2018-2023)

CMRR Computational Neuroscience faculty search committee (2017-2018)

Co-Organizer, University of Rochester Neuromedicine Symposium on Persistent Maladaptive Behaviors (with Suzanne Haber), 2016-2017

Co-Organizer, CVS symposium 2016, with Jude Mitchell. Topic: The Future of Visual Attention.

Major Advisor, Neuroscience Major: 2016-2017.

Faculty advisor for BCS 206 (Undergraduate research in cognitive science).

Society for Neuroscience, Rochester Chapter, Council Member (2014-2016)

University of Rochester, University Committee for Interdisciplinary Studies (2013-2017)

BCS Faculty Search Committee (2012-2014) Systems Neuroscience and Computation/Theory searches

CVS Website Committee (2012-2013)

Neuroscience Graduate Program Admissions Committee (2011-present)

Graduate student thesis committees:

- UMN: Natalie Lopresti (Neuroscience), Scott Stanslaski (Biomedical Engineering)
- UR: Roger Feltman (CSP), Jordan Silberman (CSP), Celeste Kidd (BCS), Berkeley Fahrenthold (NGP), Kevin Dieter (BCS), Adam Pallus (Neuroscience)

University of Rochester undergraduate senior project committees (n=7)

Courses taught:

- NSCI 5551 (Advanced statistics for Neuroscience) with Jan Zimmermann, 2020
- NSC 203 (Neuroscience Lab) team taught with Kathy Nordeen and Dave Kornack, 2012-present
- NSC 301 (Senior seminar) 2013-present
- BCS 248/548 (Seminar in Neuroeconomics) 2014-present

Coordinator, Duke Center for Neuroeconomic Studies Major Speaker Series (2007-2009)

Coordinator, Duke Center for Neuroeconomic Studies Summer Journal Club (2007-2008)

Co-coordinator, Duke Neuroeconomics Journal Club (2006-2007) with Bethany Weber

Extramural service

Ad-hoc study section member, K99 BRAINS, NIH (May, 2020)

Ad-hoc study section member, CP, NIH (Feb, 2020)

Society for Neuroeconomics Awards Committee (2019)

Ad-hoc study section member, SPC, NIH (June, 2019)

Ad-hoc study section member, NIDA CEBRA, NIH (2018 and 2019)

Society for Neuroeconomics Awards Committee (2019)

Ad-hoc study section member, BRLE, NIH (May, 2018)

Ad-hoc study section member, SPC, NIH (March, 2017)

Co-director, Neuroeconomics Summer Course (NYU-Shanghai) with Nathaniel Daw (NYU), Hilke Plassmann (INSEAD), and Agnieszka Tymula (U Sydney)

Abstract reviewer, COSYNE (2014 and 2015 meeting)
Co-creator, Neurotree website (<http://www.neurotree.org>) with Stephen V. David
Ad-hoc study section member, NIDA CEBRA, NIH (2015)
NSF Review Panel for Brain and Cognitive Sciences (2013) and ad hoc reviewer, 2011-present
Editor, Invited special issue on neuroscience of foraging, Frontiers in Decision Neuroscience (2012-2013)
Ad-hoc grant reviewer for Wellcome Trust, EU Grant foundation, Leakey Foundation, and others