

DUJE TADIN

Academic Curriculum Vitae

Personal

Birthplace: Split, Croatia, 1976
Contact: Dept. of Brain and Cognitive Sciences
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Education

1999-2004	Vanderbilt University	Ph.D. , Psychology	Advisor: Joseph S. Lappin
1999-2001	Vanderbilt University	M.A. , Psychology	Advisor: Joseph S. Lappin
1998	Oxford University	Visiting Student (two terms)	
1995-1999	Westminster College	B.A. in Mathematics; B.A. in Psychology; Minor in Physics Magna Cum Laude	
1994-1995	Bucklin, MO High School	Exchange Student	
1991-1994	Mathematics and Information Science Educational Center, Split, Croatia		

Academic Appointments & Affiliations (**bold** = current primary appointments)

2023 (July/Aug)	University of Rochester	Interim Dean, School of Arts and Sciences
2022-current	University of Rochester	Faculty member, Goergen Institute for Data Science
2020-current	U of Rochester Medical Center	Faculty member, Del Monte Institute for Neuroscience
2019-current	University of Rochester	Chair, Department of Brain and Cognitive Sciences
2018-current	University of Rochester	Professor, Department of Brain and Cognitive Sciences <i>Associate Professor</i> <i>Assistant Professor</i>
2018-current	University of Rochester	Professor, Center for Visual Science <i>Associate Professor</i> <i>Assistant Professor</i>
2018-current	U of Rochester Medical Center	Professor, Department of Neuroscience <i>Associate Professor</i>
2018-current	U of Rochester Medical Center	Professor, Department of Ophthalmology <i>Associate Professor</i> <i>Assistant Professor</i>
2015-2016	Vanderbilt University	Visiting Scholar, Department of Psychology
2007	Vanderbilt University	Lecturer, Department of Psychology
2006-2007	Vanderbilt University	Investigator, Psychiatric Neuroimaging Program
2004-2007	Vanderbilt University	Postdoctoral Research Associate, Advisor: Randolph Blake

Awards and Honors

2019	Distinguished Alumnus Award, Psychological Sciences, Vanderbilt University
2017	NARSAD Independent Investigator Award
2014	Elsevier/Vision Sciences Society Young Investigator Award
2010	NSF CAREER Award, PAC program (funding declined in lieu of an overlapping R01 award)
2009	Provost's Multidisciplinary Award, University of Rochester
2004	The Chancellor's Award for Research (for Tadin et al., 2003), Vanderbilt University
2002	The William F. Hodges Teaching Assistant Award, Vanderbilt University

1999-2003	Vanderbilt University Graduate Fellowship (a topper award)
1998	Cranshaw Scholarship (\$15,000 towards the study at Oxford University)
1997-1999	Psi Chi, Pi Mu Epsilon, and Alph Chi, Westminster College
1997	The Jane Maughs Grant Memorial Scholarship
1995-1999	Dean's List, Westminster College
1995-1999	Westminster College International Scholarship (full tuition)

Pending Grants, ** = includes indirect costs

2023 – 2025 Simons Foundation SFARI Explorer grant: *“Naturalistic Audiovisual Integration in Autism”*
(co-PIs: E. Knight & D. Tadin; \$500,000**)

Funding

Total awarded funding = \$23,332,000 (PI / MPI: \$5,701,000; co-I: \$16,774,000; mentor: \$858,000)

Active Grants, ** = includes indirect costs

2023 – 2024 NIH R01, NEI: *“Interplay between multifocal optics & accommodation: implications for myopia progression”*
(role: co-I; PI: S. Marcos; \$2,488,024**) [2 month effort]

2023 – 2024 University Research Award: *“Naturalistic Audiovisual Integration in Autism Spectrum Disorder”*
(co-PIs: E. Knight & D. Tadin; \$74,000)

2022 – 2023 Goergen Institute for Data Science (GIDS) pilot grant: *“Audiovisual Integration in Virtual Reality Renderings of Real Physical Spaces”*
(role: PI; \$20,000)

2021 – 2026 NIH T32, NEI: *“Training Grant in Vision Science,”*
(MPIs: D. Tadin & K. Huxlin; \$723,186**) [0.48 month effort]

2021 – 2026 NIH R01, NEI: *“Vision recovery in cortical blindness”*
(role: co-I; PI: K. Huxlin; \$2,573,875**) [1 month effort]

2020 – 2025 NIH R01, NINR: *“Targeting autonomic flexibility to enhance cognitive training outcomes in older adults with mild cognitive impairment”*
(role: co-I; PI: F. Lin; \$2,361,690**)

Completed Grants, ** = includes indirect costs

2018 – 2023 NIH R01, NEI: *“Binocular vision after long-term adaptation to ocular optics”*
(role: co-I; PI: G. Yoon; \$2,211,750**, including \$35,856 PI subaward in year 5) [1.2 month effort]

2019 – 2022 NIH R21, NIMH: *“Validate a shared neural circuit underlying multiple neuropsychiatric symptoms”*
(role: co-I; PI: F. Lin; \$415,333**) [0.6 month effort]

2016 – 2021 NIH T32, NEI: *“Training Grant in Vision Science,”*
(PI: D. Tadin; \$1,443,644) [0.48 month effort]

2017 – 2021 NIH R01, NEI: *“Attention-driven enhancement of visual training in cortical blindness”*
(role: co-I; PI: K. Huxlin; \$1,555,554**) [1.2 month effort]

2017 – 2020 NARSAD Independent Investigator Award: *“A critical role of perceptual inefficiencies in working memory abnormalities in schizophrenia”*
(PI: D. Tadin; \$100,000**) [1.2 month effort]

2015 – 2019 NIH R01, NINR: *“Neurophysiological aspects of vision-based speed of processing cognitive training in older adults with mild cognitive impairment”*

- (role: co-I; PI: F. Lin; \$2,053,836**) [1.2 month effort]
- 2017 – 2019 CTSI Incubator Program: *“Social modifiers of stress regulation and healthy aging”*
(role: co-I; PI: K. Heffner.; \$124,828) [0.45 month effort]
- 2017 – 2018 AR/VR Pilot Award Program: *“Enhancing brain training with virtual reality”*
(PI: D. Tadin; \$50,000)
- 2017 – 2018 Schmitt Program on Integrative Brain Research: *“Limitations underlying perceptual processing in ASD: Integration across sensory domains”*
(role co-PI with L. Bennetto; \$57,275) [0.45 month effort]
- 2013 – 2018 NIH R01, NEI: *“Mechanisms and plasticity of long term visual adaptation to ocular optics”*
(role: co-I; PI: G. Yoon; \$1,506,931**) [1.8 month effort]
- 2015 – 2016 PumpPrimer II: *“Visual processing in Autism Spectrum Disorders”*
(PI: D. Tadin; \$32,000)
- 2013 – 2016 NIH R21, NIA: *“Kinesthetic modulation of visual motion perception: measuring and modeling changes over the adult lifespan”* (PI: D. Tadin/D. Knill; \$416,775**) [1 month effort]
- 2011 – 2016 NIH R01, NEI: *“Mechanisms of visual learning in cortical blindness”*
(role: co-I; PI: K. Huxlin; \$1,517,963**) [1.2 month effort]
- 2010 – 2016 NIH R01, NEI: *“Mechanisms of visual motion perception”*
(PI: D. Tadin; \$1,268,914**) [3 month effort]
- 2014 – 2016 Australian Research Council: *“Does mental imagery drive visual working memory”*
(role: co-PI with J. Pearson; A\$351,000; approx. \$365,000)
- 2014 – 2015 NIH T32, NEI: *“Training Grant in Vision Science,”*
(PI: D. Tadin; \$648,606)
- 2012 – 2015 Quebec Ministry of Economic Development, Innovation and Export Trade: *“Functional consequences of rapid sensory adaptation / Conséquences fonctionnelles de l'adaptation sensorielle rapide”*
(role: co-PI with C. Pack; C\$150,000; approx. \$152,000 USD)
- 2010 – 2012 Unity through Knowledge Fund, Research Cooperability Program: *“Neurophysiologic markers generated by electrical & magnetic stimulation of motor speech related areas”*
(role: co-PI; PI: V. Deletis; €200,000; approx. \$266,000 USD)
- 2009 – 2010 Schmitt Program on Integrative Brain Research, Interdisciplinary research project: *“Neural mechanisms of visual working memory in humans and non-human primates”* (PIs: D. Tadin & T. Pasternak; \$40,000)
- 2009 – 2010 Provost’s Multidisciplinary Award: *“Enhancing vision, cognition, and quality of life in older adults through video game playing”* (role: co-PI with S. Sørensen et al.; \$40,000)
- 2008 NSF Conference Grant: *“Blurring the borders between vision, cognition and action”*
(role: co-PI with T. Pasternak; \$21,000)
- 2004 Dissertation Enhancement Grant, Vanderbilt University (PI: D. Tadin; \$2,000)

Mentored Grants, ** = includes indirect costs

- 2023 – 2025 NIH KL2 NCATS
“Neural Mechanisms Underlying Speech-in-noise Processing Difficulty in Autism”
(role: co-mentor; PI: E. Knight; \$267,960**)
- 2022 – 2024 NIH NIA Diversity Supplement
“U24 NEW Brain Aging Diversity Supplement”
(role: advisor; PI: Y. Conwell; trainee: M. Anthony; \$140,000)
- 2022 – 2023 Autism Science Foundation Pre-doctoral Fellowship:
“Understanding Hyper-Responsiveness to Touch in the Autistic Brain”
(role: advisor; PI: E. Isenstein; \$35,000)

- 2020 – 2022 A*Star International Fellowship, Agency for Science, Technology and Research, Singapore:
“Application of dichoptic stimulation to ageing vision research”
 (role: mentor; PI: S. Han; ~\$143,000)
- 2019 Child Neurology Foundation, Neurodevelopmental Disabilities Summer Research Scholarship:
“Investigating the differentiation and integration of visual and proprioceptive information in children with Autism Spectrum Disorder”
 (role: co-mentor; PI: E. Isenstein; \$3,500)
- 2017 – 2018 CTSI Pilot Studies Program: *“Does early visual rehabilitation enhance vision recovery after occipital stroke?”*
 (role: co-mentor; PI: E. Saionz; \$25,000)
- 2016 – 2017 Autism Science Foundation Pre-doctoral Fellowship:
“Characterizing visual processing differences in individuals with ASD”
 (role: graduate advisor; PI: WJ. Park; \$25,000)
- 2013 – 2015 NIH KL2 NCATS
“Role of vision-based computerized cognitive training in preventing cognitive and functional decline in older adults with mild cognitive impairment,”
 (role: co-mentor; PI: F. Lin; \$218,462**)

Invited Talks

- 2022 Keynote, *TCCI NeuroChat 2022*, China
- 2021 *Optical Society of America, Fall Vision Meeting*, Seattle, WA
Ophthalmology Grand Rounds, University of Rochester Medical Center, Rochester, NY
- 2019 *Distinguished alumnus lecture*, Vanderbilt University, Dept. of Psychology, Nashville, TN
International Neuropsychological Symposium, Vietri sul Mare, Italy
Neurology Grand Rounds, University of Rochester Medical Center, Rochester, NY
- 2018 *SFARI Workshop*, Simons Foundation, New York, NY
Carlson Center for Imaging Science, Rochester Institute of Technology, Rochester, NY
Frameless Symposium, MAGIC Spell Studios, RIT, Rochester NY
- 2017 *Laboratory for Laser Energetics*, University of Rochester, Rochester, NY
- 2016 *Peking University*, McGovern Institute for Brain Research, Beijing, China
University of New South Wales, Dept. of Psychology, Sydney, Australia
Vanderbilt University, Dept. of Psychology, Nashville, TN
Vanderbilt University School of Medicine, Dept. of Psychiatry, Nashville, TN
- 2015 *McGill University, Montreal Neurological Institute*, Montreal, Canada
Vanderbilt University, Dept. of Psychology, Nashville, TN
- 2014 *Yale University School of Medicine*, Dept. of Psychiatry, New Haven, CT
Plenary talk, Vision Sciences Society, Young Investigator Award, St. Pete Beach, FL
University of Pennsylvania, Institute for Research in Cognitive Science, Philadelphia, PA
Michigan State University, Dept. of Psychology, East Lansing, MI
- 2013 *Invited ARVO symposium: Clinical Aspects of Motion Perception*, Seattle, WA
- 2012 *Canonical Neural Computation Workshop*, New York University at Villa La Pietra, Florence, Italy
Seoul National University, Dept. of Brain & Cognitive Sciences, Seoul, South Korea
Rutgers University, *Interdisciplinary Perceptual Science*, Piscataway, NJ
- 2011 *University of California Irvine*, Dept. of Cognitive Sciences, Irvine, CA
Smith-Kettlewell Eye Research Institute, San Francisco, CA
Italian Institute of Technology, *Center For Neuroscience & Cognitive Systems*, Rovereto, Italy
- 2010 *Harvard Medical School*, *Center for Non-Invasive Brain Stimulation*, Boston, MA
- 2008 *Vanderbilt Medical School*, Dept. of Psychiatry, Nashville, TN
- 2007 *Harvard Medical School*, *Center for Non-Invasive Brain Stimulation*, Boston, MA

University of Rochester, Brain & Cognitive Sciences, Rochester, NY
Williams College, Dept. of Psychology, Williamstown, MA
Ohio State University, Dept. of Psychology, Columbus, OH
George Washington University, Dept. of Psychology, Washington, DC
University of Split Medical School, Dept. of Neuroscience, Split, Croatia
University of Zadar, Dept. of Psychology, Zadar, Croatia

2006 *University of Pennsylvania, Dept. of Psychology, Philadelphia, PA*
 2005 *University of Utrecht, Netherlands (Special Helmholtz Symposium: On conscious vision)*
 2003 *Harvard University, Dept. of Psychology, Boston, MA*
Harvard Medical School, Dept. of Neurobiology, Boston, MA
 2002 *University of Utrecht, Utrecht, Netherlands*

Teaching

University of Rochester

Main lecturer:

2009-2022 (13x) *Perception & Action* (BCS 151, undergraduate)
 2009-2015 (5x) *Laboratory in Perception and Cognition* (BCS 208, undergraduate)
 2012, 13, 18 *Senior Seminar* (BCS 310, undergraduate)
 2008 *Cognition* (BCS 502, graduate)
 2017, 19 *Perception and Motor Systems* (BCS 505, graduate)
 2013-2022 (7x) *Special topics in vision* (BCS 528, graduate)
 2020, 21, 22, 23 *Professional Development and Career Planning* (BCS 599, graduate)

Guest lecturer in:

Undergraduate: *AR/VR Interaction Design* (CSC 294), *Foundations of Cognitive Science* (BCS 111), *Intelligent Eye* (BCS 220)
 Graduate: *Neural Plasticity in Learning & Development* (BCS 508), *Sensory Systems* (BCS 504), *Behavioral Methods in Cognitive Science* (BCS 511), *Cognitive Neuroscience* (BCS 508), *Neurobiological Foundations of Behavior* (PSY 566), *Cognition* (BCS 502), *NRT Data-Enabled Research: Practicum* (DSCC 531)

Vanderbilt University

2007 Lecturer, *Perception*
 2007 Lecturer, *Visual System*
 2002-2006 Guest lecturer, *Perception*; Guest lecturer, *Visual System*
 2000-2007 Supervision of independent study students in Psychology and Neuroscience
 2000-2006 Presentations in *Neuroscience*, *Cognitive psychology* and *Clinical psychology* seminars
 2000-2002 Teaching assistant for *Perception* (2x), *General Psychology* and *Learning & Memory*

Westminster College

1996-1999 Senior Mathematics Tutor, Campus Learning Center
 1996-1999 Physics I & II lab assistant

Mentoring, * = students co-mentored with other faculty

Graduate students

		<u>Subsequent (S) and/or current (C) position</u>
Kevin Dieter	2008 – 2013 (PhD)	S: Postdoc with Randolph Blake, Vanderbilt University C: Lead Analytics Consultant, CVS Health
Davis Glasser	2009 – 2013 (PhD)	S: Postdoc with David Heeger, New York University C: Senior Data Science Manager, Spotify
Kyung Mi Park	2009 – 2010 (MA)	S: Graduate student, Univ. of California Berkeley, School of Information
Ruyuan Zhang*	2010 – 2015 (PhD)	S: Postdoc with Kendrick Kay, University of Minnesota C: Associate Professor, Shanghai Jiao Tong University, China

Woon Ju Park*	2012 – 2017 (PhD)	S: Postdoc with Duje Tadin & Loisa Bennetto, University of Rochester C: Postdoc with Lone Fine, University of Washington
Michael Melnick*	2013 – 2018 (PhD)	S/C: Postdoc with Duje Tadin, University of Rochester; Senior Data Scientist, Veracio
Kimberly Schauder*	2013 – 2018 (PhD)	S: Postdoc in clinical psychology at Children's National Hospital C: Assistant Professor, University of Louisville School of Medicine Clinical Child Psychologist at Norton Children's Hospital
Ying Lin	2018 – current	TBD
Mia Anthony*	2019 – current	TBD
Emily Isenstein*	2020 – current	TBD

Postdoctoral research associatesSubsequent (S) and/or current (C) position

Philip Jaekl	2012 – 2015	S: Postdoc with Liz Romanski, University of Rochester Medical Center C: Science Writer
Oh-Sang Kwon*	2012 – 2015	S/C: Assistant Professor, Ulsan National Institute of Science & Technology
Feng (Vankee) Lin*	2012 – 2013	S: Assistant/Associate Professor, University of Rochester Medical Center C: Clinical Professor, Stanford University
Woon Ju Park*	2017 – 2018	S/C: Postdoc with Lone Fine, Washington University
Michael Melnick*	2018 – current	C: Senior Data Scientist, Veracio
Shui'Er Han*	2020 – 2023	S/C: Scientist I, Institute for Infocomm Research, Singapore
Adam Turnbull*	2022 – 2023	S/C: Social Science Research Scholar (with Vankee Lin), Stanford University

Professional Activity and Service

Conference and symposium organizing (** = a lead organizer):

Optical Society of America Fall Vision Meeting:

Washington, DC, September 19-22, 2019 (program organizer)

Reno, NV, September 21-23, 2018 (program organizer)

Washington, DC, October 13-15, 2017 (program organizer)

**Rochester, NY, CA, October 20-23, 2016 (local & program organizer)

San Jose, CA, October 22-25, 2015 (program organizer)

Philadelphia, PA, October 10-12, 2014 (program organizer)

Rochester, NY, September 14-16, 2012 (local organizer)

Rochester, NY, October 22-24, 2010 (local organizer)

**31th CVS Symposium, "New Frontiers in Virtual Reality," Rochester, NY, June 1-3, 2018.

Asia-Pacific Conference on Vision, Symposium, "Mechanisms of motion perception," Incheon, Korea, July 14, 2012

**VSS Symposium, "Integrating local motion information," Naples, FL, May 6, 2011

**26th CVS Symposium, "Blurring the borders between vision, cognition and action," Rochester, NY, May 29-31, 2008

Selected media coverage (examples at: www.bcs.rochester.edu/people/Duje/News.html):

- NPR • BBC • NBC News • CNN • NYT • USA Today • CBC Radio • Time Magazine • MSNBC • Scientific American
- CBS Sports • The Atlantic • The Telegraph • Slate • Newsday • Wired • Toronto Star • Yahoo! News • The Globe and Mail • Science Daily • New Scientist • Scientific American • Vox • RAI • WXXI • Saturday Night Live

Grant reviewing:

- NIH Study section: *Mechanisms of Sensory, Perceptual, and Cognitive Processes (ad hoc)*
- NIH NEI Special Emphasis Panel: *NEI Institutional Training Grant Applications*
- NIH Human Complex Mental Function Special Emphasis Panel
- NSF: *Cognitive Neuroscience Program*
- NSF: *Developmental Sciences Program*
- *Natural Sciences and Engineering Research Council (Canada)*

- *Fight for Sight (Scientific Review Committee, 2016-2019)*
- *The Schmitt Program on Integrative Brain Research*
- *UNYTE Translational Research Network*

Journal editing:

- *Frontiers in Perception Science (Review Editor) (2012-2018)*

Journal, book and abstract review:

Multidisciplinary/Biology:	Neuroscience:	Cognition & Perception:	Clinical:
<i>Biology Letters</i>	<i>Brain</i>	<i>Attention, Perc & Psychophy</i>	<i>Biological Psychiatry</i>
<i>Collegium Antropologicum</i>	<i>Brain Research</i>	<i>Cognition</i>	<i>Fr. Psychopathology</i>
<i>Communications Biology</i>	<i>Brain Stimulation</i>	<i>Cognitive Res: Princi & Impli</i>	<i>Psychopharmacology</i>
<i>Current Biology</i>	<i>Cerebral Cortex</i>	<i>Current Eye Research</i>	<i>Schizophrenia Bull.</i>
<i>eLife</i>	<i>Experimental Brain Res</i>	<i>Emotion</i>	<i>Neurobio. of Aging</i>
<i>J. Biosciences</i>	<i>Fr. Human Neuroscience</i>	<i>Fr. Perception Science</i>	
<i>J. Physiology</i>	<i>J. Cognitive Neuroscience</i>	<i>i-Perception</i>	Abstract review:
<i>J. Undergraduate Studies</i>	<i>J. Computational Neuroscience</i>	<i>IOVS</i>	<i>OSA Frontiers in Optics</i>
<i>Philosophical Trans. B</i>	<i>J. Neurophysiology</i>	<i>JEP: General</i>	<i>Fall Vision Meeting</i>
<i>Proc. Natl. Acad. Sci.</i>	<i>J. Neuroscience</i>	<i>JEP: Human Percept & Perf</i>	<i>ECVP (COVID)</i>
<i>PLOS Biology</i>	<i>Progress in Neurobiology</i>	<i>J. Vision</i>	
<i>PLOS ONE</i>	<i>Nature Neuroscience</i>	<i>Perception</i>	Book/chapter reviewing:
<i>PLOS Comput. Biology</i>	<i>Neuron</i>	<i>Psychological Science</i>	<i>Sinauer Associates</i>
<i>Scientific Reports</i>	<i>Neuroscience Letters</i>	<i>Psychonomic Bull & Review</i>	<i>Cengage Learning</i>
		<i>Vision Research</i>	<i>Oxford University Press</i>

Membership (past and present):

- *Vision Sciences Society (VSS)* • *Society for Neuroscience (SFN)* • *Optical Society of America (OSA)* • *Association for the Scientific Study of Consciousness (ASSC)* • *Association for Psychological Science (APS)*

University service

2022-2023	Search committee for Dean of the School of Arts and Sciences
2021	Strategic planning committee; Arts, Sciences & Engineering
2020-2022	Budget advisory committee; Arts, Sciences & Engineering
2020-current	Executive Committee, Neuroscience Graduate Program
2020-current	Executive Committee, Del Monte Institute for Neuroscience
2009-current	Executive Committee, Center for Visual Science
2012-2015	University Council on Graduate Studies

Departmental service (*Brain & Cognitive Sciences and Center for Visual Science*)

2019-2025	Department Chair, Brain and Cognitive Sciences
2014-current	Director of Training & CVS training committee (chair)
2011-current	Walt and Bobbi Makous Prize Committee, Center for Visual Science (chair)
2009-current	Executive Committee, Center for Visual Science
2011-2019	BCS Undergraduate Committee
2009-2019	Research Talk series coordinator, Center for Visual Science
2011-	BCS/CVS Faculty Search Committee (6X)
2017-2019	Director of Undergraduate Studies (BCS)
2013-15, 17-19	BCS admissions committee (chair)
2012-2017	CVS Instrumentation Module, Associate Director
2011-2013	CVS Boynton Colloquium Committee (chair)

Professional service

2020	Program committee, ECVF 2020 (canceled due to COVID-19)
2017-2018	Chair, Vision Technical Group, Optical Society of America
2017-2019	Program committee, OSA Fall Vision Meeting
2014-2016	Vice-chair & Chair-elect, Vision Technical Group, Optical Society of America
2015-2016	OSA Frontiers in Optics, Vision and Color Subcommittee
2013-current	Standing Committee of External Evaluators, Italian Institute of Technology

Research-related community service and community lectures

2020, 2023	The Highlands at Pittsford, community lecture
2017	Rochester Museum & Science Center, Science Alive: Winter Break Edition
2014	Science Café presentation: <i>Visual perception as a window to brain function</i>
2013-2015	Rochester Museum & Science Center, Science Saturdays: <i>Visual illusions reveal mysteries of the brain</i>
2008	Presenter, Science Educator's Day, organized by the Optical Society of America
2006	Internship mentor, Ravenwood High School gifted program

Intellectual property

- ❖ E. Isenstein, A. Busza, and D. Tadin. "Rapid and Precise Assessment and Training of Motor Behavior in Stroke Patients," U.S. Provisional Pat. Ser. No. 63/405,200, Pending.

Publications: *in review/revision* (** = equally contributing authors; ### = equally contributing senior authors)

- ❖ Alleluia Shenge, V., Chen, P.S., Park, W-J & **Tadin**, D. (in revision) Viewpoint-dependent face recognition during a naturalistic visual search. *Vision Research*
- ❖ Han, S., Blake, R., Aubuchon, C. & **Tadin**, D. (in revision) Binocular rivalry under naturalistic geometry: evidence from worlds simulated in virtual reality. *Proceedings of the Royal Society B: Biological Sciences*
- ❖ Anthony, M., Turnbull, A., **Tadin**, D. & Lin, F.V. (in revision) Positive affective experience protects cognitive plasticity in older adults with neurodegeneration. *Social Cognitive and Affective Neuroscience*.

Publications (** = equally contributing authors; ### = equally contributing senior authors)

2023 / in press

- ❖ Moon, J., **Tadin**, D. & Kwon, O-S. (2023) A key role of orientation in the coding of visual motion direction. *Psychonomic Bulletin & Review*, 30, 564-574.
- ❖ Turnbull, A., Anthony, M., **Tadin**, D., Porsteinsson, A., Heffner, K., Lin, F.V. (2023). Effect of online tDCS to left somatomotor cortex on neuropsychiatric symptoms among older adults at risk for dementia. *Cortex*, 159:131-141.

2022

- ❖ Isenstein, E.L., Waz, T., LoPrete, A., Hernandez, Y., Knight, E., Busza, A. & **Tadin**, D. (2022). Rapid assessment of reaching using virtual reality and application in cerebellar stroke. *PLoS ONE*, 17(9): e0275220.
- ❖ Turnbull, A., Seitz, A., **Tadin**, D., Lin, F.V. (2022) Unifying framework for cognitive training interventions in brain aging. *Ageing Research Reviews*, 81:101724.
- ❖ Cavanaugh, M.R., **Tadin**, D., Carrasco^{###}, M. & Huxlin^{###}, K.R. (2022) Benefits of endogenous spatial attention during visual double-training in cortically-blinded fields. *Frontiers in Neuroscience*, 16:771623.
- ❖ Makowski, L.M., Rammsayer, T.H., **Tadin**, D., Thomas, P. & Troche, S.J. (2022). On the interplay of temporal resolution power and spatial suppression in their prediction of psychometric intelligence. *PLoS ONE*, 17(9): e0274809.

2021

- ❖ Park**, W.J., Schauder**, K.B., Kwon, O-S., Bennetto^{##}, L. & Tadin^{##}, D. (2021). Atypical visual motion-prediction abilities in Autism Spectrum Disorder. *Clinical Psychological Science*, 1-17. <https://doi.org/10.1177/2167702621991803>
- ❖ Ng, C.J., Blake, R., Banks, M.S., Tadin, D., & Yoon, G. (2021) Optics and neural adaptation jointly limit human stereovision. *Proceedings of the National Academy of Sciences*, 118(23), e2100126118.
- ❖ Barbot, A. Park, W.J., Ng, C.J., Zhang, R., Huxlin, K.R, Tadin, D., & Yoon, G. (2021) Functional reallocation of sensory processing resources caused by long-term neural adaptation to altered optics. *eLife*, 10:e58734 DOI: 10.7554/eLife.58734.
- ❖ Isenstein, E.L., Park, W.J. & Tadin, D. (2021). Atypical and inflexible visual encoding in autism spectrum disorder. *PLoS Biology*, 19(6):e3001293.
- ❖ Lin**, F., Heffner**, K., Gevirts, R., Zhang, Z. Tadin, D., & Porsteinsson A. (2021). Targeting autonomic flexibility to enhance cognitive training outcomes in older adults with mild cognitive impairment: study protocol for a randomized controlled trial. *Trials*, 22(1): 560.

2020

- ❖ Pasternak, T. & Tadin, D. (2020) Linking neuronal direction selectivity to perceptual decisions about visual motion. *Annual Review of Vision Science*, 6:335–62. [Invited]
- ❖ Saionz, E.L., Tadin, D., Melnick, M.D. & Huxlin, K.R. (2020) Functional preservation and enhanced capacity for visual restoration in subacute occipital stroke. *Brain*, 143:1857-1872.
Covered by: **MD Magazine, Futurity, Medical Dialogues, News 8 WROC**
- ❖ Lin, F.V., Tao, Y., Chen, Q., Anthony, M., Zhang, Z., Tadin, D. & Heffner, K.L. (2020) Processing speed and attention training modifies autonomic flexibility: A mechanistic intervention study. *Neuroimage*, 213:116730.
- ❖ Chen**, Q., Yang**, H., Rooks, B., Anthony, M., Zhang, Z., Tadin, D., Heffner, K.L. & Lin, F.V. (2020) Autonomic flexibility reflects learning and associated neuroplasticity in old age. *Human Brain Mapping*, 41: 3608-3619.

2019

- ❖ Tadin, D., Park, W.J., Dieter, K.C., Melnick, M.D., Lappin, J.S. & Blake, R. (2019) Spatial suppression promotes rapid figure-ground segmentation of moving objects. *Nature Communications*, 10:2732.
***Nature Communications Editors' Highlight, "From Brain to Behaviour"**
Covered by: **The Atlantic, Quanta Magazine.**
- ❖ Herpich, F., Melnick, M.D., Agosta, S., Huxlin^{##}, K.R., Tadin^{##}, D. & Battelli^{##}, L. (2019). Boosting learning efficacy with non-invasive brain stimulation in intact and brain-damaged humans. *Journal of Neuroscience*, 39: 5551-5561. ***Featured Article for the issue, covered by "This Week in The Journal"**
Covered by: **Psychology Today, La Stampa.**
- ❖ Zhang, R. & Tadin, D. (2019) Disentangling locus of perceptual learning in the visual hierarchy of motion processing. *Scientific Reports*, 9: 1557.
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- Lin, Y., Reynoso, J., Chen, Z., Haefner, R. & Tadin, D. (2023) A new approach for the study of visual orientation perception and decisions. (VSS abstracts).
- Cavanaugh, M., Tina, L., Merriam, E., Tadin, D., & Huxlin, K. (2023) Direction discrimination training recovers fine orientation perception in V1-damage fields. (VSS abstracts).
- Reynoso, J., Isenstein, E., Steele, M., Du, K., Benavides, L., & Busza, A., & Tadin D. (2023) Effects of expertise and age on reaching movements guided by vision, memory and proprioception. (VSS abstracts).
- Giguere, A., Huxlin, K., Fajen, B.R., Tadin, D., Diaz, J.G. (2023) Optic flow density modulates corner-cutting behavior in a virtual reality driving task. (VSS abstracts).
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- Lin, Y., Chen, Z., Reynoso, J., Haefner, R., Tadin D. (2022) A unifying framework for perceptual decision-making. *Journal of Vision*. (FVM abstracts).

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- Lin, Y., & Tadin, D. (2022) Moving toward a unifying framework for perceptual decision making that combines threshold and reaction time approaches. *Journal of Vision*. (VSS abstracts).
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2020

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- Lin, F., Cole, D., Cotton, K., Tadin, K., Heffner, K., Kitzman, H, Porsteinsson, A. & Mapstone, M. (2014) Executive Homeostatic Network: Does It Apply to Mild Cognitive Impairment? (CTSI Abstracts)

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(Conference talks are marked with ♣*)