

DUJE TADIN

Curriculum Vitae

Personal

Birthplace: Split, Croatia, 1976
Contact: Dept. of Brain and Cognitive Sciences Office / lab: 585.275.8682 / 585.275.7259
Meliora Hall 305 Fax: 585.271.3043
University of Rochester Email: dtadin@ur.rochester.edu
Rochester, NY 14627 Web: www2.bcs.rochester.edu/sites/duje/

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 (***bold** = primary appointments)

2020-current	U of Rochester Medical Center	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
	University of Rochester	*Professor, Center for Visual Science
	U of Rochester Medical Center	Professor, Department of Neuroscience
	U of Rochester Medical Center	Professor, Department of Ophthalmology
2017-2018	U of Rochester Medical Center	Associate Professor, Department of Neuroscience
2015-2016	Vanderbilt University	Visiting Scholar, Department of Psychology
2013-2018	University of Rochester	*Associate Professor, Department of Brain and Cognitive Sciences
	University of Rochester	*Associate Professor, Center for Visual Science
	U of Rochester Medical Center	Associate Professor, Department of Ophthalmology
2011-2013	U of Rochester Medical Center	Assistant Professor, Department of Ophthalmology
2007-2013	University of Rochester	*Assistant Professor, Department of Brain and Cognitive Sciences
	University of Rochester	*Assistant Professor, Center for Visual Science
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
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)

Total funding = \$19,640,000 (lead PI: \$4,002,000; MPI/co-PI: \$901,000; co-I: \$14,322,000; mentor: \$415,000)

Active Grants, ** = includes indirect costs

- 2021 – 2026 R01, NEI: “Vision recovery in cortical blindness”
(role: co-I; PI: K. Huxlin; \$2,573,875**)
- 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**)
- 2018 – 2023 NIH R01, NEI: “Binocular vision after long-term adaptation to ocular optics”
(role: co-I; PI: G. Yoon; \$2,211,750**) [1.2 month effort]
- 2019 – 2021 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]

Completed Grants, ** = includes indirect costs

- 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 Grant: “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; PI: 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; PI: 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; PI: S. Sørensen; \$40,000)
- 2008 NSF Conference Grant: *“Blurring the borders between vision, cognition and action”*
(role: co-PI; PI: T. Pasternak; \$21,000)
- 2004 Dissertation Enhancement Grant, Vanderbilt University (PI: D. Tadin; \$2,000)

Mentored Grants, ** = includes indirect costs

- 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

- 2021 *Optical Society of America, Fall Vision Meeting, Seattle, WA*
- 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:

- 2009-2020 (11x) *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)
- 2013-2020 (5x) *Special topics in vision* (BCS 528, graduate)
- 2020 *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

<u>Graduate students</u>		<u>Subsequent (S) and/or current (C) position</u>
Kevin Dieter	2008 – 2013 (PhD)	S: Postdoc with Randolph Blake, Vanderbilt University C: Visual Psychophysicist at Ora, Inc
Davis Glasser	2009 – 2013 (PhD)	S: Postdoc with David Heeger, New York University C: Lead Data Scientist at 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: Assistant Professor, Shanghai Jiao Tong University, China
Woon Ju Park*	2012 – 2017 (PhD)	S: Postdoc with Dujie Tadin & Loisa Benetto, University of Rochester C: Postdoc with Ione Fine, University of Washington
Michael Melnick*	2013 – 2018 (PhD)	S & C: Postdoc with Dujie Tadin, University of Rochester; Data Science Consultant
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
<u>Postdoctoral research associates</u>		<u>Subsequent (S) and/or current (C) position</u>
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 Ione Fine, Washington University
Michael Melnick*	2018 – current	TBD
Shui'Er Han	2020 – current	TBD

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*
- *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:

Biology Letters
Collegium Antropologicum
Communications Biology
Current Biology
eLife
J. Biosciences
J. Physiology
J. Undergraduate Studies
Philosophical Trans. B
Proc. Natl. Acad. Sci.
PLOS Biology
PLOS ONE
PLOS Comput. Biology
Scientific Reports

Neuroscience:

Brain
Brain Research
Brain Stimulation
Cerebral Cortex
Experimental Brain Res
Fr. Human Neuroscience
J. Cognitive Neuroscience
J. Computational Neuroscience
J. Neurophysiology
J. Neuroscience
Progress in Neurobiology
Nature Neuroscience
Neuron
Neuroscience Letters

Psychology & Perception:

Attention, Perc & Psychophy
Cognition
Current Eye Research
Emotion
Fr. Perception Science
i-Perception
IOVS
JEP: General
JEP: Human Percept & Perf
J. Vision
Perception
Psychological Science
Psychonomic Bull & Review
Vision Research

Clinical:

Biological Psychiatry
Fr. Psychopathology
Psychopharmacology
Schizophrenia Bull.
Neurobio. of Aging

Abstract review:

OSA Frontiers in Optics
Fall Vision Meeting
ECVP (COVID)

Book/chapter reviewing:

Sinauer Associates
Cengage Learning
Oxford University Press

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)*

Departmental and University service

2020-current Budget advisory committee; Arts, Sciences & Engineering
 2020-current Executive Committee, Neuroscience Graduate Program
 2020-current Executive Committee, Del Monte Institute for Neuroscience
 2017-current Co-Director of Center for Augmented and Virtual Reality (Neuroscience)
 2014-current Director of Training & CVS training committee (chair)
 2011-current Walt and Bobbi Makous Prize Committee, Center for Visual Science (chair)
 2011-current BCS Undergraduate Committee
 2009-current Research Talk series coordinator, Center for Visual Science
 2009-current Executive Committee, Center for Visual Science
 2011- BCS/ CVS Faculty Search Committee (5X)

2017-2019	Director of Undergraduate Studies (BCS)
2013-15, 17-19	BCS admissions committee (chair)
2012-2017	CVS Instrumentation Module, Associate Director
2012-2015	University Council on Graduate Studies
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	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

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

- ❖ Lin, F., Chen, Q., Anthony, M., Tao, T., McDermott, K., Jacobs, A., Chen, D-G., Schifitto, G., Conwell, Y., Heffner, K., Mapstone, M., Porsteinsson, A., & **Tadin, D.** (in review). Neural and cognitive effects of cognitive training in older adults at risk for dementia.
- ❖ Lin, F.V., Heffner, K., Gevartz, R., Zhang, Z., **Tadin, D.** & Porsteinsson, A. (in review) Targeting autonomic flexibility to enhance cognitive training outcomes in older adults with mild cognitive impairment: Study protocol for a randomized controlled trial.
- ❖ Rooks, B., Chen, Q., Anthony, M., Anderson, A.J., Zhang, Z., Hayden, B., **Tadin, D.**, & Lin F. (in review) Neural correlates of "ah-ha" moments of probability-based implicit learning in old age.

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

2021 / in press

- ❖ 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. (in press) Optics and neural adaptation jointly limit human stereovision. *Proceedings of the National Academy of Sciences*.
- ❖ 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.** (in press). Atypical and inflexible visual encoding in autism spectrum disorder. *PLOS Biology*.

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.
- ❖ Lin, Y. & **Tadin**, D. (2019) Motion perception: Slow development of center-surround suppression. *Current Biology*, 29: R878–R880.
- ❖ Schauder, K.B., Park, W.J., Tsank, Y., Eckstein, M.P., **Tadin**, D. & Bennetto, L. (2019). Initial eye gaze to faces and its functional consequence on face identification abilities in autism spectrum disorder. *Journal of Neurodevelopmental Disorders*. 11:42.
- ❖ Borghuis, B.G, **Tadin**, D., Lankheet, M.J.M., Lappin, J.S. & van de Grind, WA (2019) Temporal limits of visual motion processing: psychophysics and neurophysiology. *Vision*, 3:5.

2018

- ❖ Murray, S.O., Schallmo, M-P., Kolodny, T., Millin, R., Kale, A., Thomas, P., Rammsayer, T.H., Troche, S. J., Bernier, R.A. & **Tadin**, D. (2018) Sex differences in visual motion processing. *Current Biology*, 28: 2794–2799.
- ❖ Park, W.J. & **Tadin**, D. (2018) Motion perception. In J. Serences (Ed), *The Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience: Sensation, Perception & Attention*. 4th Edition. Wiley, 415-488. [Invited review]
- ❖ Park, W. J., Schauder, K. B. & **Tadin**, D. (2018) Pupillometry: Consciousness reflected in the eyes. *eLife*. 7:e35374 [Invited Preview]
- ❖ Troche, S.J., Thomas, P., **Tadin** D. & Rammsayer, T.H (2018) On the relationship between spatial suppression, speed of information processing, and psychometric intelligence. *Intelligence*, 67: 11-18.

2017

- ❖ Park**, W. J., Schauder**, K. B., Zhang, R., Bennetto^{##}, L. & **Tadin^{###}**, D. (2017) High internal noise and poor external noise filtering characterize perception in autism spectrum disorder. *Scientific Reports*, 7:17584.
- ❖ Lin, F., Heffner, K.L., Ren, P. & **Tadin**, D. (2017) A role of the parasympathetic nervous system in cognitive training. *Current Alzheimer Research*, 14, 784-789.
- ❖ Schauder**, K.B., Park**, W.J., **Tadin^{##}**, D. & Bennetto^{##}, L. (2017) Larger receptive field size as a mechanism underlying atypical motion perception in Autism Spectrum Disorder. *Clinical Psychological Science*, 5, 827-842.
- ❖ Lin, F., Ren, P., Wang, X., Anthony, M., **Tadin**, D. & Heffner, K.L. (2017) Cortical thickness is associated with altered autonomic function in cognitively impaired and non-impaired older adults. *Journal of Physiology*, 595, 6969–6978. doi:10.1113/JP274714.

2016

- ❖ Dieter, K.C., Melnick, M.D. & Tadin, D. (2016) Perceptual training profoundly alters binocular rivalry through both sensory and attentional enhancements. *Proceedings of the National Academy of Sciences*, 113, 12874–12879, doi: 10.1073/pnas.1602722113.
- ❖ Nyquist, J.B., Lappin, J.S., Zhang, R. & Tadin, D. (2016) Perceptual training yields rapid improvements in visually impaired youth. *Scientific Reports*, 6:37431.
- ❖ Lin, F., Heffner, K.L., Tivarus, M.E., Ren, P., Brasch, J., Chen, D-G., Mapstone, M., Porsteinsson, A.P. & Tadin, D. (2016) Cognitive and neural effects of vision-based speed of processing training in older adults with amnesic mild cognitive impairment: A pilot study. *Journal of the American Geriatrics Society*, 64, 1293–1298.
- ❖ Melnick, M.D., Tadin, D. & Huxlin, K.R. (2016) Relearning to see in cortical blindness. *The Neuroscientist*, 22, 199–212. [Invited review]
- ❖ Dieter, K.C., Brascamp, J., Tadin, D. & Blake, R. (2016) Does visual attention drive the dynamics of bistable perception? *Attention, Perception & Psychophysics*, 78, 1861–1873.

2015

- ❖ Kwon, O-S., Tadin, D. & Knill, D.C. (2015) Unifying account of visual motion and position perception. *Proceedings of the National Academy of Sciences*, 112, 8142–8147.
Covered by: **CBS Sports, Vox.**
- ❖ Tadin, D. (2015) Suppressive mechanisms in visual motion processing: from perception to intelligence. *Vision Research*, 115, 58-70. [Invited review]
- ❖ Jaekl, P., Seidlitz, J., Harris, L. & Tadin, D. (2015) Audiovisual delay as a novel cue to visual distance. *PLOS ONE*, 10(10): e0141125. doi: 10.1371/journal.pone.0141125.
Covered by: **Scientific American, Tech Times, Science Codex.**
- ❖ Dieter, K.C., Melnick, M.D. & Tadin, D. (2015) When can attention influence binocular rivalry? *Attention, Perception & Psychophysics*, 77, 1908-1918.
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- ❖ Vangeneugden**, J., Peelen**, M., Tadin, D. & Battelli, L. (2014) Distinct neural mechanisms for body form and body motion discriminations. *Journal of Neuroscience*, 34, 574–585.
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- ❖ Lappin, J.S., **Tadin**, D. & Whittier, E.J. (2002) Visual coherence of moving and stationary image changes. *Vision Research*, 42, 1523-1534.
- ❖ **Tadin**, D., Lappin, J.S., Blake, R. & Grossman, E.D. (2002) What constitutes an efficient reference frame for vision? *Nature Neuroscience*, 5, 1010-1015.
- ❖ **Tadin**, D., Haglund, R.F. Jr., Lappin, J.S. & Peters, R.A. (2001) Effects of surface microstructure on macroscopic image shading. In B.E. Rogowitz & T.N. Pappas (Eds), *Human Vision and Electronic Imaging VI*, Proceedings of SPIE Vol. 4299, pp. 221-230.

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- Tadin, D. (2001) *Spatial and temporal interactions in motion perception*. Unpublished masters thesis, Vanderbilt University, Nashville, TN.

- Tadin, D. (1999) *Role of surface information in data driven processing: Testing the recognition-by-components theory*. Unpublished undergraduate thesis, Westminster College, Fulton, MO.

Conference Abstracts (conference talks are marked with: ♣*)

2020

- Lin, Y., & Tadin, D. (2020) Duration threshold: A new approach to estimate decision-making time. (V-VSS abstracts)
- ♣ *Jeon, H-J, Tadin, D. & Kwon, O-S (2020) Nature-inspired noise model accounts for a broad range of motion phenomena. (V-VSS Abstracts)
- Isenstein, E.L., Shenge, V.A., Johnson, D., Iyer, S., Knight, E., Tadin, D. (2020) Integration of Visual and Proprioceptive Information in Children with Autism Spectrum Disorder. (International Society for Autism Research Annual Meeting; presented digitally due to COVID-19).
- Kwon, O-S, Jaekl, P., Pikul, O., Knill, D.C. & Tadin, D (2016) Visuo-haptic cue integration in older adults. *Journal of Vision*. (VSS Abstracts)
- Melnick, M.D., Cavanaugh, M.R., Carrasco, M., Tadin, D. & Huxlin, K.R. (2016) Perceptual training alters residual motion processing in V1-damaged humans. *Journal of Vision*. (VSS abstracts; **Student Travel Award**)

2019

- ♣ *Ng, C.J., Banks, M.S., Tadin, D., Blake, R. & Yoon, G. (2019) Can human stereopsis improve by making the eyes optically perfect? *Journal of Vision*. (VSS abstracts)
- ♣ *Ng, C.J., Banks, M.S., Tadin, D., Blake, R. & Yoon, G. (2019) Perfect optical correction reveals visual plasticity driven by the retinal image quality. (SFN abstracts)
- ♣ *Saionz, E.L., Melnick, M.D., Tadin, D. & Huxlin, K.R. (2019) Use it before you lose it: greater efficacy of visual training for recovering contrast sensitivity in subacute cortical blindness. (FVM abstracts).
- Park, W.J., Schauder, K.B., Bennetto, L., Tadin, D. (2016) Atypical motion sensitivity characterized by larger receptive fields in autism spectrum disorder (IMFAR abstracts; **Student Travel Award**)
- Schauder, K.B., Park, W.J., Kwon, O-S, Bennetto, L., Tadin, D. (2016) Motion prediction abilities in Autism Spectrum Disorder. (IMFAR abstracts)

2018

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- ♣ *Foss-Feig, J.H., Adkinson, B.D., Park, W.J., Levy, E., Santamauro, N., Schleifer, C., Deckert, K., Srihari, V., Kystal, J.H., Tadin, D., McPartland, J.C., Anticevic, A. (2016) Dissociating visual correlates of context modulation in ASD and schizophrenia (IMFAR abstracts)
- Adkinson, B.D., Foss-Feig, J.H., Park, W.J., Levy, E., Santamauro, N., Schleifer, C., Schauder, K.B., Deckert, K., Srihari, V., Kystal, J.H., Tadin, D., McPartland, J.C., Anticevic, A. (2016) Psychophysical correlates of excitatory/inhibitory imbalance during visual motion perception in adults with ASD and schizophrenia (IMFAR abstracts)

2017

- ♣ *Park, W.J., Ichinose, M., Park, S. & Tadin, D. (2017) Perceptual inefficiencies predict individual differences in working memory both in typical adults and in schizophrenia. *Journal of Vision*. (VSS abstracts)
- ♣ *Ichinose, M., Park, W.J., Tadin, D. & Park, S. (2017) Visual working memory deficits in schizophrenia: A case of noisy perceptual processing? *International Congress on Schizophrenia Research*.
- Schauder, K.B., Park, W.J., Tadin, D., Bennetto, L. (2016) Increased internal noise in autism spectrum disorder is associated with higher response variability in a predictive motion task and overall symptom severity. (SFN Abstracts).

2016

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- Zhang, R., Kwon, O-S & Tadin, D. (2016) The complete transfer of learning between component and pattern motion: psychophysical evidence for training-induced plasticity in MT. *Journal of Vision*, (VSS abstracts)
- Barbot, A., Huxlin, K., Tadin, D. & Yoon, G. (2016). Neural compensation mechanisms following long-term adaptation to severe optical defects. *Journal of Vision*. (FVM abstracts).
- Dowd, R., Barbot, A., Krystel, H., Tadin, D. & Yoon, G. (2016) Binocular function is altered by long-term exposure to interocular optical disparities in normally developed visual systems. *Journal of Vision*. (FVM abstracts).

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- ♣ *Kwon, O-S, Zhang, R. & Tadin, D. (2015) Temporal evolution of motion direction judgments. *Journal of Vision*, (VSS abstracts)

- Park, W.J. & Tadin, D. (2015) Background subtraction as a mechanism for efficient motion segregation. *Journal of Vision*, (VSS abstracts)
 - Zhang, R., Kwon, O-S & Tadin, D. (2015) Specificity and transfer in perceptual learning of motion. *Journal of Vision*, (VSS abstracts)
 - Jaekl, P. & Tadin, D. (2015) Audiovisual reaction time enhancement is achieved through auditory-magnocellular interactions. *Journal of Vision*, (VSS abstracts)
 - Herpich, F., Melnick, M.D., Huxlin, K.R., Tadin, D., Agosta, S. & Battelli, L. (2015) Transcranial random noise stimulation enhances visual learning in healthy adults. *Journal of Vision*, 15(12), 40 (VSS abstracts)
 - ♣ *Barbot, A., Sabesan, R., Zheleznyak, L., Huxlin, K.R., Tadin, D., & Yoon, G. (2015) Improved phase congruency following long-term neural adaptation in keratoconus. (ARVO abstracts; **ARVO Travel Grant**)
- 2014**
- Kwon, O-S, Tadin, D. & Knill, D.C. (2014) An optimal object-tracking model provides a unifying account of motion and position perception. (COSYNE abstracts)
 - ♣ *Jaekl, P. & Tadin, D. (2014) Audio-visual delay as a new cue to visual distance. *Journal of Vision*, (VSS abstracts)
 - ♣ *Melnick, M.D., Dieter, K.C. & Tadin, D. (2014) Highly abnormal visual context processing in older adults. *Journal of Vision*, (VSS abstracts)
 - Park, W.J. & Tadin, D. (2014) Mechanisms of motion-based object segregation. *Journal of Vision*, (VSS abstracts)
 - Dieter, K.C., Melnick, M.D. & Tadin, D. (2014) What determines the influence of attention on binocular rivalry? *Journal of Vision*, (VSS abstracts)
 - Kwon, O-S, Tadin, D. & Knill, D.C. (2014) Optimal tracking model accounts for perceptual conflict between motion and position in the curveball illusion. *Journal of Vision*, (VSS abstracts)
 - Glasser, D.M., Tadin, D. & Pack, C.C. (2014) Motion reversal reveals mechanisms of perceptual suppression. *Journal of Vision*, (VSS abstracts)
 - Das, A., Tadin, D. & Huxlin, K.R. (2014) Properties of recovered vision in cortically blind fields. *Journal of Vision*, (VSS abstracts)
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 - Levi, A., Shaked, D. Tadin, D. & Huxlin, K.R. (2014) Is improved contrast sensitivity a natural consequence of visual training? *Journal of Vision*, (VSS abstracts)
 - 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)
- 2013**
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 - ♣ *Kwon, O-S, Tadin, D. & Knill, D.C. (2013) Bayesian observer model of the motion induced position shift. *Journal of Vision*, (VSS abstracts)
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 - Jaekl, P. & Tadin, D. (2013) Sound delay in audiovisual events can signal object depth. *Journal of Vision*, (VSS abstracts)
 - Shaked, D., Levi, A., Das, A., Tadin, D. & Huxlin, K.R. (2013) Generalizability of visual perceptual learning – complexity matters! (CNS abstracts).
 - Zheleznyak, L., Alarcon, A., Dieter, K.C., Tadin, D. & Yoon, G. (2013) The role of eye dominance on through-focus visual performance in modified monovision presbyopic corrections. (ARVO abstracts; **Outstanding Poster Award**).
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- 2011**
- ♣ *Tadin, D. (2011) Center-surround interactions in visual motion perception. *Journal of Vision*, 11(11): 29 (VSS Symposium).
 - ♣ *Tadin, D. (2011) Symposium Summary: Integrating local motion information. *Journal of Vision*, 11(11): 31 (VSS Symposium).
 - Dieter, K.C., Hu, B., Knill, D.C. & Tadin, D. (2011) Visual smooth pursuit of proprioceptive signals is enhanced by task-irrelevant dynamic noise. *Journal of Vision*, 11(11): 786 (VSS Abstracts).

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- ♣ *Dieter, K.C., Hu, B., Blake, R., Knill, D.C. & Tadin, D. (2011) Proprioception makes an invisible hand visible. *Perception*, 40: 37 (EVP Abstracts).
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- Glasser, D.M., Tsui, J., Dieter, K.C., Pack, C.C. & Tadin, D. (2009) Psychophysics and neurophysiology of the rapidly generated MAE. *Journal of Vision*, 9(8):676, 676a. (VSS abstracts)
- Yang, E., Glasser, D.M., Hong, S.W., Blake, R., Tadin, D & Park, S. (2009) Visual illusions involving contextual modulation are weak in schizophrenia. *Journal of Vision*, 9(8):1029, 1029a. (VSS abstracts)

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- Nyquist, J.B., Lappin, J.S. & Tadin, D. (2008) Perceptual training yields rapid improvements in visually impaired youth. *Journal of Vision*, 8(6):1131, 1131a. (VSS abstracts)
- Glasser, D.M. & Tadin, D. (2008) Lower temporal limit for generation of the motion after-effect. *Journal of Vision*. (FVM abstracts).

- ♣ *Tadin, D. (2008) Center-surround interactions in vision: description and functional roles. (AIC abstracts)

2007

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- Tadin, D., Kim, J. & Park, S. (2007) Weakened center-surround interactions in visual motion processing in schizophrenia. *Schizophrenia Bulletin*. 33, 545 (ICOSR abstracts)

2006

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- ♣ *Lappin, J.S., Nyquist, J.B. & Tadin, D. (2006) Spatial interactions in fast and slow motion mechanisms. *Journal of Vision*, 6(6), 1085a. (VSS abstracts)
- Pearson, J., Tadin, D. & Blake, R. (2006) Brain stimulation can make you change your mind. *Journal of Vision*, 6(6), 849a. (VSS abstracts)
- Tadin, D. & Blake, R. (2006) Strength of early visual aftereffects is correlated with changes in visual awareness. *Association for the Scientific Study of Consciousness meeting*.

2005

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- ♣ *Gold, J.M., Cook, S.C., Tadin, D. & Blake, R. (2005) The efficiency of biological motion perception. *Journal of Vision*, 5(8), 1057a. (VSS abstracts)
- Lappin, J.S., Nyquist, J.B. & Tadin, D. (2005) Acquiring visual information from central and peripheral fields. *Journal of Vision*, 5(8), 161a. (VSS abstracts)
- Nyquist, J.B., Lusk, K.E., Lappin, J.S., Corn, A.L. & Tadin, D. (2005) Low vision differences between static and moving patterns in central and peripheral fields. *Journal of Vision*, 5(8), 300a. (VSS abstracts)

2004

- ♣ *Tadin, D. & Lappin, J.S. (2004) Balancing competing visual demands in perceiving moving images. *Abstracts of the Psychonomic Society*, 9, p.5.
- Mayo, P., Tadin, D., Lappin, J. & Sonsino, J. (2004) Recognition speed using a bioptic telescope. Poster presented at the *American Academy of Optometry*.
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