

Ted K. Turesky, Ph.D.

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EDUCATION

2021 – Present	Post-Doctoral Fellowship, Developmental Cognitive Neuroscience Harvard Graduate School of Education Mentor: Nadine Gaab, Ph.D. Co-Mentor: Charles Nelson, PhD
2017 – 2020	Post-Doctoral Fellowship, Developmental Cognitive Neuroscience Boston Children’s Hospital/Harvard Medical School Mentor: Nadine Gaab, Ph.D. Co-Mentor: Charles Nelson, PhD
2012 – 2017	Ph.D., Interdisciplinary Program in Neuroscience (IPN) Georgetown University, Washington, DC Mentor: Guinevere Eden, D.Phil.
2004 – 2008	B.A., Physics Colorado College, Colorado Springs, CO

HONORS AND FELLOWSHIPS

2021	Harvard Brain Initiative Transitions Award Harvard University
2019	Harvard Brain Initiative Travel Award Harvard University
2017	Karen Gale Exceptional Ph.D. Student Award in Science Georgetown University Graduate School of Arts and Sciences
2017	Medical Center Graduate Student Organization Travel Grant Georgetown University Medical Center
2015 – 2017	Neural Injury and Plasticity Pre-Doctoral Training Fellowship National Institute of Neurological Disorders and Stroke, NIH Thesis stipend, tuition, and research funds (T32, PI: Kathleen Maguire-Zeiss)
2012 – 2013	Interdisciplinary Program in Neuroscience Pre-Doc Training Fellowship National Institute of Neurological Disorders and Stroke, NIH Pre-thesis stipend, and tuition (T32, PI: Karen Gale)
2008	Transitions Fellowship for Study of Healthcare in Rural Malawi Colorado College
2007 , 2008	Dean’s List Colorado College

RESEARCH EXPERIENCE

2017 – Present	Post-Doctoral Fellow, Developmental Cognitive Neuroscience Harvard Graduate School of Education, Cambridge, MA Boston Children’s Hospital, Boston, MA Project: How poverty affects brain development using s/f/dMRI
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2012 – 2017	Ph.D. Candidate, Neuroscience Georgetown University, Washington, DC Dissertation: Functional neuroimaging studies of simple finger movements in healthy aging and development and in children with dyslexia
2010 – 2012	Research Assistant, Neuroscience Georgetown University, Washington, DC Project: Functional connectivity in patients with tinnitus
2008	Research Assistant, Solid State Physics Colorado College, Colorado Springs, CO Project: Using Auger Electron Spectroscopy to assess metal purity
2006	Research Assistant, Biochemistry ImmuCell Corporation, Portland, ME Project: USDA requalification of ImmuCell First Defense® Antibody Preparation

LEADERSHIP EXPERIENCE

2015 – Present	Member, Board of Directors American Tinnitus Association, Washington, DC
2020 – Present	Chair, Diversity and Inclusion Task Force, Board of Directors American Tinnitus Association, Washington, DC
2018 – 2019	Vice-Chair, Board of Directors American Tinnitus Association, Washington, DC
2017 – 2019	Chair, Conference Outreach Committee, Board of Directors American Tinnitus Association, Washington, DC
2015 – 2016	Chair, Support Groups Committee, Board of Directors American Tinnitus Association, Washington, DC
2014 – 2017	Interim System Administrator and Webmaster Center for the Study of Learning, Georgetown University, Washington, DC
2010 – 2017	Tinnitus Support Group Founder and Facilitator Washington, DC
2014 – 2016	Student President IPN, Georgetown University, Washington, DC
2013 – 2014	Student Advisory Committee Representative IPN, Georgetown University, Washington, DC
2013 – 2014	Student Senator IPN, Georgetown University, Washington, DC
2012 – 2014	Student Secretary IPN, Georgetown University, Washington, DC

TEACHING EXPERIENCE

Full Time Teaching

2009 – 2010	Algebra I, Algebra II, and General Chemistry (9 th -12 th grade; 10-20 students/class) Hebron Academy, Hebron, ME
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Lectures

2018 – Present	Introduction to fMRI experimentation (annual) Boston Children's Hospital, Boston, MA
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- 2020 Diffusion image processing for infants workshop
Boston Children's Hospital, Boston, MA
- 2020 Effects of poverty and associated biological and psychosocial hazards on brain structure and function in Bangladeshi infants
Fetal-Neonatal Neuroimaging and Developmental Science Center
Boston Children's Hospital, Boston, MA
- 2019 Imagining brain imaging
Cape Elizabeth High School, Cape Elizabeth, ME
- 2019 Investigating the relationship between risk factors associated with poverty and brain structure and function
Mind, Brain, and Education: Research Methods and Critical Topics
Harvard University, Cambridge, MA
- 2019 Investigating the relationship between risk factors associated with poverty and brain structure and function
Division of Developmental Medicine, Boston Children's Hospital, Boston, MA
- 2017 Introduction to the motor system
Introduction to Neurophysiology Course, Georgetown University, Washington, DC
- 2016 Introduction to fMRI experimentation
Oakwood School, Annandale, VA
- 2016 Introduction to the motor system
IPN Drugs, Brain, and Behavior Course, Georgetown University, Washington, DC
- 2016 Introduction to fMRI experimentation
Siena School, Silver Spring, MD
- 2014 – 2015 Introduction to the motor system
IPN Summer Course, Georgetown University, Washington, DC
- 2014 Personality disorders
Drugs, Brain, and Behavior Course, Georgetown University, Washington, DC
- 2009 Scientific basis of emotions: *Emotional Intelligence* by Dan Goleman
University of Southern Maine, Lewiston-Auburn, ME

Research Supervised

- 2021 Response Inhibition in children growing up in extreme poverty
Undergraduate student: Zoya Surani
Harvard University, Cambridge, MA
- 2021 The relationship between maternal education and anatomical connectivity in U.S. and Bangladeshi children: a cross-cultural study (thesis)
Undergraduate student: Angeliki Mougiou
Brandeis University, Waltham, MA
- 2020 Home literacy environment and white matter structure in infancy
Medical student: Joseph Sanfilippo
Queens University, Kingston, ON, CAN
- 2019 Toddler language ability is associated with white matter structure and predicted by home environment in infancy
Medical student: Joseph Sanfilippo
Queens University, Kingston, ON, CAN

- 2018 Investigating the impact of socioeconomic status on the relationship between White Matter Pathways and Reading Outcomes (thesis)
Undergraduate student: Chandler Torres Pagan
Harvard University, Cambridge, MA
- 2018 Correlates of spelling & reading impairments in children: An sMRI study (thesis)
Student: Emily Koenig
Scripps College, Claremont, CA

Tutoring

- 2014 – Present Neuroimaging methods for students and research assistants
Center for the Study of Learning, Georgetown University, Washington, DC
GaabLab, Boston Children's Hospital, Boston, MA
- 2013 – 2017 Neuroanatomy lab (annual)
IPN, Georgetown University, Washington, DC
- 2008 English
LittleField Home Orphanage, Malawi

Other Teaching

- 2014, 2016 – 2017 Mock grant study section
Survivor Skills and Ethics Course, IPN, Georgetown University, Washington, DC
- 2013 – 2016 Brain awareness week (group guide)
Georgetown University, Washington, DC

LABORATORY SKILLS

- Languages: Matlab, Bash shell, HTML, Python, R
- Tools: AFQ, ANTS, Art, BrainVoyager, CONN, FreeSurfer, FSL, GingerALE, Jupyter Notebook, Marsbar, REX, SPM, scikit-learn, VBM

WORKSHOPS ATTENDED

- 2020 Python for Neuroimaging
Harvard University, Cambridge, MA
- 2020 Python for Life Sciences
Boston Children's Hospital, Boston, MA
- 2019 FIT'NG In: Establishing Best Practices for Infant Neuroimaging
FLUX Meeting, New York, NY
- 2019 NeuroHackademy for Machine-Learning, Software Engineering, and Open Science
University of Washington eScience Institute, Seattle, WA
- 2018 Infant Image Processing
University of North Carolina, Chapel Hill, NC
- 2016 Introduction to FreeSurfer
Georgetown University, Washington, DC
- 2015 Brain Connectivity (CONN toolkit) Methods
Neurometrika, Philadelphia, PA

PEER-REVIEWED PUBLICATIONS

- 2021 Zuk J, Yu X, Sanfilippo J, Figuccio MJ, Dunstan J, Carruthers C, Sideridis G, **Turesky TK**, Gagoski B, Grant PE, Gaab N, White matter in infancy is prospectively associated with language outcome in kindergarten, *Developmental Cognitive Neuroscience* 50, 100973.
- 2020 **Turesky TK**, Vanderauwera J, Gaab ND, Imaging the rapidly developing brain: Current challenges for MRI studies in the first five years of life, *Developmental Cognitive Neuroscience* 47, 1-14.
- 2020 Ahtam B, **Turesky TK**, Zollei L, Standish J, Grant PE, Gaab N, Im K, Intergenerational Transmission of Cortical Sulcal Patterns, *Cerebral Cortex* 00, 1-10.
- 2020 Turesky EF, Smith C, **Turesky TK**, Virtual team leadership: trust building and conflict management, *Organizational Management Journal* 17(4/5), 185-206.
- 2020 **Turesky TK**, Xie W, Kumar S, Sliva DD, Gagoski B, Vaughn J, Zöllei L, Haque R, Kakon SH, Islam N, Petri WA, Nelson CA, Gaab N, Relating anthropometric indicators and brain structure in 2-month-old Bangladeshi infants growing up in poverty: a pilot study, *NeuroImage* 210, 1-10.
- 2019 **Turesky TK**, Jensen S, Kumar S, Yu X, Wang Y, Zollei L, Boyd E, Sanfilippo J, Sliva D, Haque R, Kakon SH, Islam N, Petri WA, Gagoski B, Nelson CA, Gaab N, The relationship between poverty and resting-state functional connectivity in 2-month old Bangladeshi infants: a feasibility and pilot study, *Developmental Science* e12841.
- 2019 Gaab N, **Turesky TK**, Sanfilippino J, Early identification of children at-risk for developmental dyslexia and reading impairments: neurobiology, screening, evidence-based response to screening, and the use of educational technology (chapter in book). Washington JA, Compton DL, McCardle P (Ed.). *Dyslexia*, 44-56.
- 2017 **Turesky TK**, Olulade OA, Luetje MM, Eden GF, An fMRI study of the motor system in children and young adults. *Human Brain Mapping* 39(8), 3203-15.
- 2016 **Turesky TK**, Turkeltaub PE, and Eden GF, An activation likelihood estimation meta-analysis study of simple motor movements in older and young adults, *Frontiers in Aging Neuroscience* 8, 238.
- 2016 Leaver AM*, **Turesky TK***, Seydell-Greenwald A, Morgan S, Kim HJ, and Rauschecker JP, Intrinsic network activity in tinnitus investigated using functional MRI, *Human Brain Mapping* 37(8), 2717-35. *equal contributions.
- 2014 Seydell-Greenwald A, Raven E, Leaver AM, **Turesky TK**, and Rauschecker JP, Diffusion imaging of auditory and auditory-limbic connectivity in tinnitus - preliminary evidence and methodological challenges, *Neural Plasticity* 2014, 1-16.
- 2012 Seydell-Greenwald A, Leaver AM, **Turesky TK**, Morgan S, Kim HJ and Rauschecker JP, Functional MRI evidence for a role of ventral prefrontal cortex in tinnitus, *Brain Research* 1485, 22-39.
- 2012 Leaver AM, Seydell-Greenwald A, **Turesky TK**, Morgan S, Kim HJ and Rauschecker JP, Cortico-limbic morphology separates tinnitus from tinnitus distress, *Frontiers in Systems Neuroscience* 6, 21.

MANUSCRIPTS UNDER REVIEW / IN PREPARATION

- 2021 **Turesky TK**, Shama T, Kakon SH, Haque R, Islam N, Someshwar A, Petri WA, Nelson CA, Gaab N, Brain morphometry and diminished physical growth in Bangladeshi children growing up in extreme poverty: a longitudinal study (preprint: <https://www.biorxiv.org/content/10.1101/2021.02.24.432797v1>).

- 2021 **Turesky TK**, Luetje M, Eden GF, An fMRI study of finger movements in children with and without dyslexia (under review at *Cerebral Cortex Communications*).
- 2021 **Turesky TK**, Alkire DR, Andriola DL, and Eden GF, A comparison of resting-state and task-state functional connectivity in children.
- 2021 **Turesky TK**, Sanfilippo J, Zuk J, Lee M, Dunstan J, Carruthers C, Yu X, Gaab N, Home literacy environment shapes white matter in infancy.
- 2021 Sury D*, **Turesky TK***, Yu X, Gaab N, Longitudinal changes in brain activation underlying reading fluency. *equal contributions.

CONFERENCE POSTERS AND PRESENTATIONS

- 2021 Zuk J, Davison K, Garrisi K, Lee A, Vanderauwera J, **Turesky TK**, Dunstan J, Gagoski B, Grant PE, Gaab N, White matter in infancy is prospectively associated with subsequent decoding abilities at school age, *Cognitive Neuroscience Society* (virtual; accepted).
- 2021 Ravi N, Zuk J, Garrisi K, Lee A, Vanderauwera J, **Turesky TK**, Dunstan J, Davison K, Grant PE, Gaab N, Examining Relationships Between the Music Environment and White Matter Organization in Infancy, *Cognitive Neuroscience Society* (virtual; accepted).
- 2021 Sanfilippo J, **Turesky TK**, Zuk J, Vanderauwera J, Yu X, Lee A, Garrisi K, Dunstan J, Carruthers C, Gaab N, Home literacy environment mediates the relationship between socioeconomic status and white matter structure in infants, *Cognitive Neuroscience Society* (virtual; accepted).
- 2020 Zuk J, Sanfilippo J, Vanderauwera J, **Turesky TK**, Lee A, Dunstan J, Gagoski B, Grant PE, Gaab N, Evaluating contributions of home literacy environment and white matter organization to emerging language abilities: a longitudinal investigation from infancy to toddlerhood, *Society for the Scientific Study of Reading Annual Meeting* (Newport Beach, CA; virtual).
- 2020 **Turesky TK**, Gagoski B, Haque R, Kakon SH, Islam N, Petri WA, Nelson CA, Gaab N, Frequency characteristics of resting-state BOLD signal in 2-month-old Bangladeshi infants growing up in poverty, *Cognitive Neuroscience Society* (Boston, MA; virtual).
- 2020 King C, Vanderauwera J, Zuk J, **Turesky TK**, Raschle N, Gaab N, Structural neural correlates of reading development in children with early language delay. *Cognitive Neuroscience Society* (Boston, MA; virtual).
- 2020 Lee AM, Vanderauwera J, **Turesky TK**, Sanfilippo J, Zuk J, Grant PE, Gaab N, Investigating Relationships between Home Literacy Environment, Early Language Skills and White Matter Organization from Infancy to Toddlerhood. *Cognitive Neuroscience Society* (Boston, MA; virtual).
- 2020 Vanderauwera J, Zuk J, **Turesky TK**, Lee AM, Dunstan J, Gaab N, Inter- and intrahemispheric white matter organization in relation to language skills in infancy. *Cognitive Neuroscience Society* (Boston, MA; accepted).
- 2020 Zuk J, Vanderauwera J, Lee AM, Gonzalez M, Dunstan J, **Turesky TK**, Rubez D, Yu X, Grant PE, Gaab N, Evaluating predispositions for music training: white matter in infancy relates to music aptitude abilities in preschool. *Cognitive Neuroscience Society* (Boston, MA; virtual).
- 2019 Sanfilippo J, **Turesky TK**, Zuk J, Yu X, Dunstan J, Carruthers C, Gaab N, Toddler language ability is associated with white matter structure and predicted by home environment in infancy, *Queen's University School of Medicine Research Showcase* (Kingston, ON, CAN).
- 2019 **Turesky TK**, Xie W, Kumar S, Sliva DD, Gagoski B, Vaughn J, Zöllei L, Haque R, Kakon SH, Islam N, Petri WA, Nelson CA, Gaab N, Relating stunting, underweight, and wasting to brain structure in 2-month-old Bangladeshi infants growing up in poverty: a pilot study, *FLUX Conference* (New York, NY).

- 2019 **Turesky TK**, Figuccio M, Yu X, Gonzalez M, Wang Y, Gaab N, Investigating the relationship between brain substrates of phonological processing and white matter properties in preschoolers, *New England Research on Dyslexia Society Conference* (Cambridge, MA).
- 2019 Sury D, **Turesky TK**, Yu X, Gaab N Longitudinal changes in neural activation underlying reading fluency during elementary school, *New England Research on Dyslexia Society Conference* (Cambridge, MA).
- 2018 Koenig E, **Turesky TK**, Gaab N, Neural correlates of spelling and reading impairments in children: a structural MRI study, *Scripps Undergraduate Research Symposium* (Claremont, CA).
- 2018 **Turesky TK**, Jensen S, Kumar S, Yu X, Wang Y, Zollei L, Boyd E, Sanfilippo J, Sliva D, Gagoski B, Haque R, Kakon SH, Islam N, Petri WA, Nelson CA, Gaab N, The relationship between poverty and resting-state functional connectivity in 2-month old Bangladeshi infants, *FLUX Conference* (Berlin, Germany).
- 2017 **Turesky TK**, Alkire DR, Andriola DL, Luetje M, Eden GF, A comparison of true and pseudo resting-state functional connectivity data in children, *Organization for Human Brain Mapping Conference* (Vancouver, British Columbia).
- 2016 **Turesky TK**, Olulade OA, Eden GF, An fMRI and fcMRI study of the motor system in children with and without dyslexia, *Society for Neuroscience Meeting* (San Diego, CA).
- 2016 **Turesky TK**, The role of the tinnitus support group, *Maryland Academy of Audiology Conference* (Annapolis, MD).
- 2015 **Turesky TK**, Turkeltaub PE, and Eden GF, An ALE meta-analysis of simple motor movements in young and old adults, *Organization for Human Brain Mapping Conference* (Honolulu, HI).
- 2014 **Turesky TK**, Olulade OA, Luetje MM, Eden GF, An fMRI study on motor control in the developing brain, *Society for Neuroscience Meeting* (Washington, DC).
- 2014 **Turesky TK**, Leaver AM, Seydell-Greenwald A, Rauschecker JP, Auditory-limbic network in tinnitus revealed by resting-state functional connectivity MRI, *Tinnitus Research Initiative Conference* (Auckland, New Zealand).
- 2012 **Turesky TK**, Leaver AM, Seydell-Greenwald A, Rauschecker JP, Resting-state functional connectivity reveals auditory-limbic network in tinnitus, *Advances and Perspectives in Auditory Neurophysiology Meeting* (New Orleans, LA).

NON-PEER-REVIEWED PUBLICATIONS

- 2016 **Turesky TK**, It's all about support, *Tinnitus Today Magazine*, American Tinnitus Association, Portland, OR.
- 2016 Fuller K, Sherlock L, Dillard J, **Turesky TK**, "ATA Support Group Leader Guide," American Tinnitus Association. <https://www.ata.org>.
- 2016 **Turesky TK**, "Sound and pain related to tinnitus and hyperacusis may have separate pathways from ear to the brain," American Tinnitus Association. <https://www.ata.org>.
- 2016 **Turesky TK**, "Two types of tinnitus in the brain," American Tinnitus Association. <https://www.ata.org>.
- 2015 **Turesky TK**, "Hyperacusis is related to damage to nerve cells in the inner ear," American Tinnitus Association. <https://www.ata.org>.
- 2015 **Turesky TK**, Zhang J, "New objective assessment tool to measure tinnitus," American Tinnitus Association. <https://www.ata.org>.
- 2015 **Turesky TK**, Presidential Address, *IPN Newsletter*, Georgetown University, Washington, DC.

AD HOC REVIEWER

Developmental Cognitive Neuroscience
Developmental Science
Human Brain Mapping
Neural Plasticity
Scientific Reports
Scientific Studies of Reading

PROFESSIONAL SOCIETIES

American Tinnitus Association
Cognitive Neuroscience Society
Flux: The Society for Developmental Cognitive Neuroscience
Organization for Human Brain Mapping
Society for Neuroscience