

# AYAN S. MANDAL, PHD

2<sup>nd</sup> year MD candidate  
DOB: 01/20/1996

 ayanmandal.phd@gmail.com

 +1 (631) 835-4886

 Philadelphia, PA, USA

## EDUCATION

**Perelman School of Medicine at the University of Pennsylvania**  
Philadelphia, PA Expected in 05/2025  
MD: Medicine

**University of Cambridge**  
Cambridge, UK 07/2021

PhD: Psychiatry

**Thesis:** *On the origins of glioma: insights from brain network mapping*

Nominated for *Milo Keynes Prize for Outstanding Dissertation* in the School of Clinical Medicine (decision pending)

**Georgetown University**  
Washington DC 05/2018

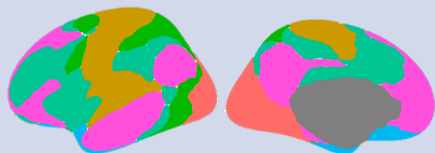
BS: Neurobiology, Physics

## MAJOR HONORS

**Gates Cambridge Scholarship**  
(2018-2021)

**Senior Class Marshal** (2018)

**Barry Goldwater Scholarship**  
(2017)



## RESEARCH EXPERIENCE

**Research Associate, Brain-Gene Development Lab** (2020 – current)  
Aaron Alexander-Bloch MD PhD, Psychiatry, University of Pennsylvania

**Clinical Researcher, DOVE Labs** (2020 – current)  
Jacob Brenner MD PhD, Medicine & Pharmacology, University of Pennsylvania

**Research Associate, Glioma Connectome Project** (2020 – current)  
Steven Brem MD, Neurosurgery, University of Pennsylvania

**PhD Researcher, Brain Mapping Unit** (2018 – 2021)  
John Suckling PhD, Psychiatry, University of Cambridge

**Research Assistant, Cognitive Recovery Lab** (2015 – 2018)  
Peter Turkeltaub MD PhD, Neurology, Georgetown University

**Research Assistant, Dzakpasu Lab** (2017 – 2018)  
Rhonda Dzakpasu PhD, Physics & Pharmacology, Georgetown University

## SELECTED SCHOLARLY WRITING

**Mandal, AS, Romero-Garcia, R, Hart, MG, Suckling, J** (2020). Genetic, cellular, and connectomic characterization of the brain regions commonly plagued by glioma. *Brain*.

**Mandal, AS, Gandal, MJ, Seidlitz, J, Alexander-Bloch, AF** (2022). A critical appraisal of imaging transcriptomics. *Biological Psychiatry: Global Open Science*.

**Mandal, AS, Romero-Garcia, R, Seidlitz, J, Hart, MG, Alexander-Bloch, AF, Suckling, J** (2021). Lesion covariance networks reveal proposed origins and pathways of diffuse gliomas. *Brain Communications*.

Romero-Garcia, R, **Mandal, AS, Bethlehem, RAI, Crespo-Facorro, B, Hart, MG, Suckling, J** (2022). Transcriptomic and connectomic correlates of differential spatial patterning among gliomas. *Brain*.

**Mandal, AS, Fama, ME, Skipper-Kallal, LM, DeMarco, AT, Lacey, EH, Turkeltaub, PE** (2020). Brain structures and cognitive abilities important for the self-monitoring of speech errors. *Neurobiology of Language*.

## SELECTED POPULAR WRITING

**A Stethoscope for the Brain: Preventive Approaches to Protect the Mind.** Ayan S. Mandal. *New Degree Press*. 2022. (book)

**“Nothing but Science and Its Academic Delights”** Ayan S. Mandal. *The Scholar*. 2020. (article)

**Hot Hearts and Cooler Heads.** Ayan S. Mandal. *The Hoya*. 2016. (article)

## RESEARCH FUNDING

**Professional Student Travel Grant**  
(2022)

*Value: \$777*

**Clinical Neuroscience Training  
Program Fellowship** (2022)

*Value: \$2400*

**Guarantors of Brain Travel Grants**  
(2019-2020)

*Value: \$900*

**Gates Cambridge Scholarship**  
(2018-2021)

*Value: ~\$100,000*

**Barry Goldwater Scholarship**  
(2017)

*Value: \$7500*

**Lisa J. Raines Fellowship** (2017)

*Value: \$5000*

**Neale-Oppenheimer Fellowship**  
(2016)

*Value: \$4000*

**Howard Hughes Medical Institute  
Scholarship** (2015)

*Value: \$5000*

## AD HOC REVIEWER

*Brain, Brain Communications, Nature  
Communications, Scientific Reports*

## LEADERSHIP & VOLUNTEERING

**Co-chair**, Student Interest Group in  
Neurology

**Advisory Board**, Clinical  
Neurosciences Training Program

**Writer**, Last Writers Program

## TEACHING EXPERIENCE

*University of Cambridge*

Mathematical Biology (2019-2021)

Evolution & Behavior (2020-2021)

Experimental Psychology &  
Cognitive Psychology (2019-2020)

## INVITED TALKS AND PODCASTS

*A Stethoscope for the Brain: Preventive Approaches to Protect the Mind*  
New Books in Neuroscience Podcast (2022)  
New Books Network

*Proposed origins and pathways of diffuse gliomas revealed by lesion  
covariance networks*  
Neuro-oncology Programme Conference (2021)  
Cancer Research United Kingdom (CRUK)

*On the origins of glioma: insights from brain network mapping*  
Basic Research Seminar Series (2021)  
Northwestern University Department of Neurosurgery

*Genetic, cellular, and connectomics characterization of the brain regions  
commonly plagued by glioma*  
Michaelmas Journal Club (2020)  
Cambridge Neuroscience Society

## CONFERENCE TALKS

**Mandal, AS**, Assem, M... & Suckling, J, Erez, Y (2022). Tumour-infiltrated  
cortex participates in large-scale cognitive circuits. Oral presentation at the  
Society for Neuro-oncology Meeting. Tampa Bay, FL. (upcoming)

**Mandal, AS**, Romero-Garcia, R, Hart, MG, Suckling, J (2020). Genetic,  
cellular, and connectomic characterization of the brain regions commonly  
plagued by glioma. Oral presentation at the Society for Neuro-oncology  
Meeting. Online.

**Mandal, AS**, Skipper-Kallal, LM... & Turkeltaub, PE (2017). Successful Self-  
Monitoring of Speech Errors Depends on Frontal White Matter Tracts.  
Platform Talk at the Academy of Aphasia. Baltimore, MD.

**Mandal, AS**, Skipper-Kallal, LM... & Turkeltaub, P.E. (2016). Successful Self-  
Monitoring of Speech Errors Depends on Frontal White Matter Tracts.  
Platform Talk at American Society for Neurorehabilitation. San Diego, CA.

## SELECTED POSTERS

**Mandal, AS**, Romero-Garcia, R... & Alexander-Bloch, AF, Suckling, J (2021).  
Proposed origins and pathways of diffuse gliomas revealed by lesion  
covariance networks. Society for Neuro-oncology, Boston, MA.

**Mandal, AS**, Romero-Garcia, R... & Alexander-Bloch, AF, & Suckling J  
(2021). Lesion covariance networks reveal proposed origins and pathways of  
glioma tumors. Organization for Human Brain Mapping, Online. *Merit abstract  
award*.

**Mandal, AS**, Romero-Garcia, R... & Alexander-Bloch, AF, Suckling J (2021).  
Cortical vulnerability to neuropathologies predicted by genetic similarity to  
subcortical modules. Organization for Human Brain Mapping. Online. *Special  
selection for "Genetics" category*.