



# Hugo Botha

ASSISTANT PROFESSOR

Department of Neurology, Mayo Clinic

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## Research Interests

Neurodegenerative disease, Neuroimaging, Machine learning, Bayesian statistics

## Education

### University of Stellenbosch

BACHELOR OF MEDICINE BACHELOR OF SURGERY (MBChB)

Cape Town, WC, SA

01/2006-12/2011

### Mayo Clinic

NEUROLOGY RESIDENCY, DEPARTMENT OF NEUROLOGY

Rochester, MN, USA

07/2012-06/2016

### Mayo Clinic

BEHAVIORAL NEUROLOGY FELLOWSHIP, DEPARTMENT OF NEUROLOGY

Rochester, MN, USA

07/2016-06/2017

### Mayo Clinic

CLINICIAN INVESTIGATOR PROGRAM, DEPARTMENT OF RADIOLOGY

Rochester, MN, USA

07/2017-06/2019

## Awards

### Rector's Award for Excellent Achievement: Academics

2011

UNIVERSITY OF STELLENBOSCH

- Awarded for outstanding achievement in either academics, sport or culture

### Graduated with Honors

2011

UNIVERSITY OF STELLENBOSCH

### Faculty of Health Sciences Medal for Best Graduating Student

2011

UNIVERSITY OF STELLENBOSCH

- Awarded to the best undergraduate student from the graduating classes in health and allied health sciences

### Mayo Brother's Fellowship Award

2016

MAYO CLINIC

- Based on the qualities associated with the founders, including outstanding clinical performance, humanitarianism, and scholarly activity

### Department of Neurology Research Award

2016

MAYO CLINIC

- Recognition of outstanding basic or clinical research during residency or fellowship

## Professional Memberships and Activities

### SOCIETY MEMBERSHIP

#### American Academy of Neurology

MEMBER

2013-present

#### International Society to Advance Alzheimer's Research and Treatment

MEMBER

2017-present

#### Organization for Human Brain Mapping

MEMBER

2017-present

#### International Society for Frontotemporal Dementias

MEMBER

2020-present

## PROFESSIONAL SERVICE

### Conferences

#### COURSE MONITOR

- American Academy of Neurology Annual Meeting (2016)

#### ABSTRACT REVIEWER

- Alzheimer's Association International Conference (2018, 2019, 2020)

### Journals

#### AD HOC REVIEWER

- Alzheimer's Research & Therapy
- Brain
- Human Brain Mapping
- JAMA Psychiatry
- Journal of Alzheimer's Disease
- Journal of the Neurological Sciences
- Mayo Clinic Proceedings
- Medical Image Analysis
- Nature: Scientific Reports
- Neurobiology of Aging
- NeuroImage: Clinical
- Neurology
- Neuropsychologia
- Parkinsonism and Related disorders

## Teaching

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### INTERNAL LECTURES

#### Neurology Residency Program

##### BASIC SUMMER LECTURE SERIES

- Bedside Cognitive Assessment (2018,2019,2020)

##### NEUROANATOMY COURSE

- Cortex I: Cytoarchitecture and Organization (2019, 2020)
- Cortex II: Lobes and Functions (2019, 2020)

### INTERNAL CONFERENCES

#### Neurology Department

##### GRAND ROUNDS

- Neurology Clinicopathologic Conference - A young man with progressive language difficulty (2015)

##### SUBSPECIALTY CONFERENCE

- Left Speechless: Dealing with the word salad of progressive aphasia and apraxia of speech (2015)
- The left hand of neurology: sinistrality, hemispheric specialization and neurodegenerative disease (2017)

### LAY PUBLIC FOCUSED TALKS

#### ADRC Patient-Caregiver Seminars

##### POSTERIOR CORTICAL ATROPHY EDUCATION SEMINAR

- Making a Diagnosis

##### CBD AND PSP EDUCATION SEMINAR

- Journey to the Diagnosis (2017)

##### FRONTOTEMPORAL DEMENTIA AND PRIMARY PROGRESSIVE APHASIA EDUCATION SEMINAR

- FTD/PPA: Making a Diagnosis (2017)
- FTD/PPA: Pathology and Pathophysiology (2017)

### Invited Talks

#### CHESLEY CENTER ON AGING 2017 DEMENTIA CARE CONFERENCE

- Latest Findings and Trends in Research (2017)

## Institutional/Departmental Activities

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### ACTIVE

#### Neurology Research Committee

VOTING MEMBER

2019 - Current

#### Neurology Artificial Intelligence Program

DEPUTY DIRECTOR

2020 - Current

#### Behavioral Neurology Fellowship

DEPUTY DIRECTOR

2020 - Current

#### Machine Learning/Deep Learning Journal Club

SECTION CHAIR (NEUROLOGY)

2020 - Current

### PRIOR

#### Mayo Internal Medicine Residents Council

PRELIM-YEAR REPRESENTATIVE

2012 - 2013

#### Neurology Residency Recruitment Committee

VOTING MEMBER

2014 - 2016

## Mentoring

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#### Johhny Dang (Medical student)

PROJECT: DELAYS IN THE DIAGNOSIS OF PPAOS

- Abstract submitted to AAN 2021
- Manuscript in preparation

2019 - Current

#### Zeynep Secking (Intern)

PROJECT: NEUROLOGIC CAUSES FOR DELUSIONAL INFESTATION

- Manuscript in preparation

2020 - Current

#### Ryan Coburn (Neurology Resident)

PROJECT: FDG-PET TO PREDICT DECLINE IN ATYPICAL ALZHEIMER'S DISEASE

- Data collection in progress

2020 - Current

## Research funding

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### ACTIVE

#### The neurobiology of two distinct types of progressive apraxia of speech (Co-I)

NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMMUNICATION DISORDERS

2017-2022

R01 DC 14942

#### Longitudinal multi-modality imaging in progressive apraxia of speech (Co-I)

NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMMUNICATION DISORDERS

2018-2023

R01 DC 12519

#### ARTFL LEFFTDS Longitudinal Frontotemporal Lobar Degeneration (ALLFTD) (Co-I)

NATIONAL INSTITUTE ON AGING

2019-2024

U19 AG 63911

#### Independent brain metabolic patterns in Progressive Supranuclear Palsy (Co-I)

NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE

2020-2022

R03 NS 114365

## Publications

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