

Eric James McDermott

PhD Candidate, Neuroscience

My aim is to utilize technology and innovation to aid humanity on both a person-to-person and global basis.



Eric.James.McDermott@gmail.com

+19515518894

Tübingen, Germany

www.ericjamesmcdermott.wix.com/home

www.linkedin.com/in/ejmcdermott

EXPERIENCE

Researcher

Universität Tübingen / International Max Planck Research School

03/2017 - Present

Tübingen, Germany

[Details](#)

- Exploring rehabilitation techniques after stroke
- Unity3D and C# Programming

Researcher

Center for Integrative Neuroscience

04/2015 - 10/2016

Tübingen, Germany

[Details](#)

- Artificial Neural Networks
- Virtual Reality Environments
- Optogenetics and Behavioral Experiments

Fulbright Research Scholar

US Fulbright - Nehru Program

08/2011 - 10/2012

Bangalore, India

[Details](#)

- Neurofeedback Training and Huntington's Disease

Psychology Technician

Veterans Affairs Hospital

01/2011 - 07/2011

San Diego, California

[Details](#)

- In-depth Data Analysis, Trend Analysis, Parkinson's Disease

Researcher

San Diego State University

09/2009 - 05/2011

San Diego, California

[Details](#)

- Huntington's Disease Motor Laboratory
- Personality through Social Networking

EDUCATION

PhD, Neural and Behavioral Science

Universität Tübingen / Max Planck Institute

03/2017 - Present

[Projects](#)

- Cognitive Rehabilitation after Stroke using Virtual Reality
- Motor Neglect Database Creation

MSc, Neural and Behavioral Science

Universität Tübingen

10/2014 - 10/2016

[Thesis](#)

- Investigation of Vision Restoration through Optogenetics

BA, Psychology

San Diego State University

08/2007 - 05/2011

SKILLS

MATLAB

Python

Unity3D / C#

EEG

fMRI

SAS (learning)

Neurofeedback

Artificial Neural Networks

Virtual Reality Development

Vicon Motion Tracking

Copy Editing

Manuscript Preparation

Simulink (basic)

Geographical Information Systems

ACHIEVEMENTS

Max Planck Institute Research Fund (03/2017 - Present)

Max Planck Institute Scholarship (10/2015 - 10/2016)

Fulbright Fellow (07/2011 - 10/2012)

Tuning the Brain: Neurofeedback Training and Huntington's disease

Associated Students Study Abroad Scholarship (01/2011 - 06/2011)

Edinburgh Napier University, Scotland

Kappa Sigma Scholastic Achievement Award

PERSONAL PROJECTS

Startup Company: Prometheus (06/2017 - Present)

- Our goal is to create and distribute affordable medical technology for the health and science sectors
- Accepted for the Tübingen MedTech Startup School for 2017

Orthoptera Acoustic Communication (07/2016 - Present)

- Acoustic and Digital Signal Analysis

Stained Glass Design (12/2016 - Present)

Modeling the Baseball Swing (05/2017 - 07/2017)

- Simulink Model and Vicon Motion Tracking to create a realistic 3D model

PRESENTATIONS

Vision Restoration through Optogenetics

German Center for Neurodegenerative Diseases

Shedding Light on Deep Neural Networks

Neurowissenschaftliche Nachwuchskonferenz Conference

Tuning the Brain: Huntington's disease and Neurofeedback

South and Central Asia Fulbright Conference

ADDITIONAL ACTIVITIES

Deutsch-Amerikanisches Institute

Instructor

Tübingen Hawks Baseball Club

Player (1 and 2 Bundesliga)

Institute of Reading Development (04/2013 - 08/2014)

Instructor