

Eric James McDermott

PhD Candidate, Neuroscience
Rehality: Founder // CEO

My aim is create innovative solutions using VR and AR to aid humanity on a personal and global basis.



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EXPERIENCE

Founder / CEO Rehality

05/2018 – Present

Tübingen, Germany

Details

- We utilize AR and VR approaches to rehabilitation along with integrated solutions of biofeedback (EEG) to predict behavior and deliver precision stimuli and medical treatments.

Co-Founder Prometheus Science

06/2017 – 04/2018

Tübingen, Germany

Details

- Using 3D printing, we developed a low-cost biology lab capable of basic microscopy, fluorescent imaging, optogenetics, and behavioral tracking for a fraction of the cost
- This solution was open-source, and we impacted regions across the world: from Africa, to South America, to Europe.

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

EDUCATION

PhD, Neural and Behavioral Science Universität Tübingen / Max Planck Institute

03/2017 – Present

Focus

- Creating viable clinical solutions for rehabilitation using VR

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

Projects / Research

- Huntington's Disease Motor Laboratory
- Auditory and Visual Modalities of Learning
- The Personality of Social Networking

SKILLS

VR / AR Development

MATLAB

Unity3D / C#

Python

Artificial Neural Networks

EEG

fMRI

Neurofeedback

Vicon Motion Tracking

Copy Editing

Manuscript Preparation

Geographical Information Systems

ACHIEVEMENTS

1st Place: Hackathon "VR4Rehab"

1st Place: MedTech Demo Day Pitch

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

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

Orthoptera Acoustic Communication (07/2016 – 02/2017)

- Acoustic and Digital Signal Analysis

ADDITIONAL ACTIVITIES

Deutsch-Amerikanisches Institute

Instructor

Tübingen Hawks Baseball Club

Player (1st and 2nd Bundesliga)

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

Instructor

Study Abroad: Scotland

Research Project: The Power of Facial Expression