NICHOLAS A. DEL GROSSO

PERSONAL INFO

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GOALS

• Inspire others through mentoring, teaching and leadership.

- Build technical skills in a wide variety of fields in order to perform high-quality research at institutes with limited resources.
- Support open science by building tools and teaching research methodology that promotes reproducible research.
- Obtain teaching, project management, and laboratory experience sufficient to one day become an excellent university professor.

EDUCATION

Oct 2014 - Present

PhD. Candidate Graduate School of Systemic Neurosciences, Lüdwig-Maximillians Üniversität

Aug 2012

M.Sc. Neuroscience Graduate Training Centre of Neuroscience, Eberhard Karls Universität Tübingen

May 2010

B.Sc. Psychology

Wittenberg University

RESEARCH EXPERIENCE

May 2013 -Present Ludwig-Maximillians Universität

Prof. Dr. Anton Sirota

Programmed a 3D graphics engine in Python to build virtual reality system for freely moving rats, supervised students in programming, engineering, and cognitive science projects, organized weekly journal clubs, and ordered new equipment, trained rodents to perform behavioral tasks, and performed surgery on said rodents as part of brain research.

INDUSTRY EXPERIENCE

Freelance Scientific Consultant

UKT Psychosomatic Med. and Sports Med.

I evaluated and designed a solution for performing medical science studies in a placebo study, and taught the PhD student who carried out the study over several remote sessions and a few travel consultations.

JOURNAL PUBLICATIONS

Nicholas A. Del Grosso, Justin J. Graboski, Weiwei Chen, Eduardo Blanco Hernández, Anton Sirota. "Virtual Reality system for freely-moving rodents." bioRxiv 161232. July 2017; doi-https://doi.org/10.1101/161232

Broetz D., Del Grosso, N.A., Rea M., Ramos-Murguialday, A., Soekadar S.R., Birbaumer, N. "A New Hand Assessment Instrument for Severely Affected Stroke Patients." Journal of Neurorehabilitation. 2014; 34(3), 409-27.

Benoit, J.B., Del Grosso, N.A., Yoder, J.A., Denlinger, D.L. "Resistance to Dehydration between Bouts of Blood Feeding in the Bed Bug, Cimex Lectularius, is Enhanced by Water

Conservation, Aggregation, and Quiescence." American Journal of Tropical Medical Hygience. May 2007; 76(5), 987-93.

CONFERENCE PUBLICATIONS

September 2018	Harvard-LMU Young Scientists Forum animal behavior researc	Testing CAVE virtual reality systems for use in the
November 2017	Society for Neuroscience CAVE Experimental Set	Generalized Rat Spontaneous Behavior in a tup.
July 2017	PyData Barcelona Eyes of a Pythonista	The Neuroscience Lab; A Tour Through the
November 2016	Munich Interact They Believe what they	Tracking Rats Exploring a Virtual World; Do See?
July 2016	FENS Forum of Neuro- science Environments with Free	Probing Rodent Perception of Virtual ely-Moving Virtual Reality
June 2015	Synergy Munich Freely-Moving Rodents	ratCAVE, A Novel Virtual Reality System for
March 2015	Interact Munich Approach for Rodent R	Demonstrating a Freely-Moving Virtual Reality esearch
Nov 2014	Society for Neuroscience Freely-Moving Rodents	ratCAVE, A Novel Virtual Reality System for .
Nov. 2012	NENA Tübingen Causal Modeling.	Interpreting (M)EEG, A First Look at Dynamic
	Introduced a probabilistic nonlinear modeling framework for interpretation of MEG and EEG data, along with the results of a pilot study in which we applied the approach.	
Nov. 2011	NENA Tübingen Task is Not Caused by a	The Intrinsic Bias During the Blind-Walking an Aberrant Intrinsic Ground-Slope Model.

${\tt SKILLS}$

- Languages: English (Mother Tongue), German (Level B₁), French (Level A₁₋₂)
- **Programming**: Python, Matlab, C-Sharp, GLSL, R, LabView, C, Bash/Linux, LaTeX
- **Stimulus Presentation**: Psychopy, Neurobs Presentation, Psychophysics Toolbox, OpenGL, Pyglet, SuperLab, RatCAVE
- Statistical Analysis: Pyton SciPy Stack (Pandas, Numpy, Matplotlib), Statistical Parametric Mapping (SPM), SPSS, R, Matlab Statistics Toolbox, Fieldtrip, gTec Analyze, BrainVision Analyzer
- Graphics: Blender, Adobe Suite (Photoshop, Illustrator, and InDesign), OpenGL, Google SketchUp, GIMP, Inkspace
- Wet Lab Skills: Rat Neurosurgery, Animal Behavioral training (rats and monkeys), in vivo electrophysiology (single needle electrodes, chronically-implanted electrode arrays, noninvasive arrays of EEG

electrodes and MEG sensors), Basic Electronics, Comfortable with building custom laboratory equipment

• EEG System Experience: BrainProducts, gTec, Grass Instruments, CTF

AWARDS

October 2017	Hackathon 3rd Place Winner and "Most Creative Team" Award at Burda Bootcamp Event "Health and Fitness Hackathon"
July 2017	Hackathon Track Winner at Media Lab Bayern Event "FutureLabSmart Home meets Journalism"
April 2017	Hackathon Winner at Burda Bootcamp Event "Love Hackathon"
2016	Best Talk Award at Interact Munich Conference
2015	Best Poster Award at Interact Munich Conference
2011	National Science Foundation Graduate Research Fellowship
2008	NSF Neuroscience REU Fellowship at Duke University
	Full List of Positions and Publications Available Upon

Request.

September 14, 2018