NICHOLAS A. DEL GROSSO

PERSONAL INFO

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GOALS

- Obtain teaching, project management, and laboratory experience sufficient to one day become a competent university professor.

- Build technical skills in a wide variety of fields in order to perform high-quality research at institutes with limited resources.

- Obtain a PhD in cognitive neuroscience by studying multimodal sensory integration and sensorimotor interactions.

- Support open science by building tools and teaching research methodology that promotes reproducible research.

EDUCATION

Aug 2012 — *M.Sc. Neuroscience* — Max Planck International Research School, Graduate School of Neural and Behavioural Sciences

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, designed and carried out cognitive science experiments testing the generalizability of virtual reality research to its real-world counterparts, supervised six students in programming, engineering, and cognitive science projects, organized weekly journal clubs, planned departmental social events and retreats, and ordered new laboratory equipment.

INDUSTRY EXPERIENCE

Technical 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

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 Hygiene. May 2007; 76(5), 987-93.

CONFERENCE PUBLICATIONS

July 2017	*PyData Barcelona*	The Neuroscience Lab; A Tour Through the Eyes of a Pythonista
November 2016	*Munich Interact*	Tracking Rats Exploring a Virtual World; Do They Believe what they See?
July 2016	*FENS Forum of Neuro-science*	Probing Rodent Perception of Virtual Environments with Freely-Moving Virtual Reality
June 2015	*Synergy Munich*	ratCAVE, A Novel Virtual Reality System for Freely-Moving Rodents
March 2015	*Interact Munich*	Demonstrating a Freely-Moving Virtual Reality Approach for Rodent Research
Nov 2014	*Society for Neuroscience*	ratCAVE, A Novel Virtual Reality System for Freely-Moving Rodents.
Nov. 2012	*NENA Tübingen*	Interpreting (M)EEG, A First Look at Dynamic Causal Modeling.

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*	The Intrinsic Bias During the Blind-Walking Task is Not Caused by an Aberrant Intrinsic Ground-Slope Model.

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**: 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

July 2017	Hackathon Track Winner at Media Lab Bayern Event "FutureLab--Smart 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 6, 2017