NICHOLAS A. DEL GROSSO

PERSONAL INFO

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GOALS

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

EDUCATION

Present

Aug 2012 Max Planck International Research School, M.Sc. Neuroscience

Graduate School of Neural and Behavioural Sciences

B.Sc. Psychology Wittenberg University May 2010

RESEARCH EXPERIENCE

Ludwig-Maximillians May 2013 -Prof. Dr. Anton Sirota Universität

> 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.

Universität Tübingen Prof. Dr. Christoph Braun Aug 2012 -

May 2013 Wrote a research grant to study the top-down and bottom-up interactions by

> computational modeling information propagation in early sensory pathways as measured by MEG, designed and administrated an institute wiki, organized a student lecture series,

and supervised two students' EEG research projects.

Universität Tübingen Prof. Dr. Niels Birbaumer Nov 2011 -

July 2012 Programmed in Matlab a time-frequency and evoked potential analysis on three years'

worth of MEG data assessing longitudinal changes in stroke patients receiving

physiotherapy.

Prof. Dr. Cornelius Schwarz Oct 2012 -Universität Tübingen

Nov 2012 In this lab rotation, I trained rats to perform whisking in response to barrel cortex

stimulation viachronically-implanted electrodes, mapping stimulation sensitivity to each

cortical layer.

INDUSTRY EXPERIENCE

UKT Psychosomatic Med. and Sports Med. Technical Consultant

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

CONFERENCE PUBLICATIONS

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, 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

Best Poster Award at Interact Munich Conference
 National Science Foundation Graduate Research Fellowship
 Full List of Positions and Publications Available Upon Request.

Nichlo Ad Desse

December 11, 2015