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

TEACHING EXPERIENCE

Summer 2017 — *Organizer* — Super Python Talks for Life Science

I organized a biweekly seminar series for teaching intermediate-level data analysis and Python programming tutorials, given by 10 PhD students and Pos-docs, including myself. Besides recruiting these speakers, I organized the room and equipment for these sessions, advertised the events, and ran the sessions. This series was successful; it was regularly attended by 30-70 researchers.

July 2016 and July 2017 — *Trainer* — Introduction to Scientific Programming in Python

This 4-day workshop is an intensive version of the semester Python course I teach at LMU. In this period, students with no programming experience gain the skills needed to perform data analysis and in Python and reason about their analysis workflow.

Summer 2016 and Summer 2017 — *Lecturer* — Introduction to Scientific Programming in Python

In this semester course, taught two years in a row, I taught beginning programmers data management, scientific data analysis, and programming skills in a new language (Python). Besides organizing and planning the course, I also prepared all course materials, homework assignments, and graded their final projects.

Winter 2015 — *Lecturer* — Introduction to Matlab

I planned and taught Matlab to beginning proramming students.

December 2015 — *Teaching Assistant* — Psychophysics

In this 2-week block course, I provided technical and programming assistance to students programming and analysing their own psychopysics experiments in Matlab, R, and Excel.

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.

Research Internship — The Neuromarketing Labs

I completed set-up of an EEG laboratory, including software calibration and noise measurements. Designed and ran two experiments estimating the evoked responses of semantic agreement and price agreement, then analyzed the data. The results from the second experiment are the basis of Dr. Müller's recently-published book, "Neuropricing". Currently volunteering as an EEG consultant by giving one-day workshops on Fieldtrip, SPM, and artifact correction methods.

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.

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