

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

<i>Aug 2012</i>	<i>M.Sc. Neuroscience</i>	Max Planck International Research School, Graduate School of Neural and Behavioural Sciences
<i>May 2010</i>	<i>B.Sc. Psychology</i>	Wittenberg University

TEACHING EXPERIENCE

<i>May 2016</i>	<i>Lecturer</i>	Introduction to Scientific Programming in Python In this 10-week course, 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.
<i>Winter 2015</i>	<i>Lecturer</i>	Introduction to Matlab I planned and taught Matlab to beginning programming students.
<i>December 2015</i>	<i>Teaching Assistant</i>	Psychophysics In this 2-week block course, I provided technical and programming assistance to students programming and analysing their own psychophysics experiments in Matlab, R, and Excel.

RESEARCH EXPERIENCE

<i>May 2013 - Present</i>	<i>Ludwig-Maximilians Universität</i>	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.
<i>Aug 2012 - May 2013</i>	<i>Universität Tübingen</i>	Prof. Dr. Christoph Braun 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.
<i>Nov 2011 - July 2012</i>	<i>Universität Tübingen</i>	Prof. Dr. Niels Birbaumer 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.

Oct 2012 -
Nov 2012

Universität Tübingen

Prof. Dr. Cornelius Schwarz

In this lab rotation, I trained rats to perform whisking in response to barrel cortex stimulation via chronically-implanted electrodes, mapping stimulation sensitivity to each cortical layer.

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 Hygiene. 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

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| 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.

A handwritten signature in black ink, appearing to read "Nicholas D. Jones". The signature is written in a cursive, flowing style.

June 1, 2016