Luigi Petrucco

graduate student @ Portugues lab
Max Planck Institute for Neurobiology

DETAILS

birth	22/11/1992
citizenship	Italian, EU
email	lpetrucco@neuro.mpg.de
github	github.com/vigji

EXPERIENCE

Sept. 2017 – ongoing	PhD at **Max Planck Institute for Neurobiology** (München, Germany) Characterization of eurydendroid cells, the output layer of the fish cerebellum Supervisor: Dr. Ruben Portugues
Oct. 2014 – Sept. 2016	Master Thesis at **Scuola Normale Superiore** (Pisa, Italy) Slow-wave oscillations and visual processing in a mouse model of epilepsy Supervisor: Prof. Gian M. Ratto
Jul. – Sept. 2015	Research Internship at **Harvard University** (Cambridge, Massachusetts) Imaging of cortical point-spread-function in mouse models of altered plasticity Supervisor: Dr. Takao K. Hensch
Jul. – Oct. 2013	Research Internship at **Max Planck Institute for Chemical Ecology** (Jena, Germany) Gene expression analysis of olfactory receptors in the moth *M. sexta* Supervisor: Dr. Ewald Grosse-Wilde

EDUCATION

2016 – ongoing	Graduate School in Systemic Neuroscience at **LMU** (München, Germany)
2011 – 2016	Diploma di Licenza in Biology at **Scuola Normale Superiore**, (Pisa, Italy)
2014 – 2016	Master Degree in Neurobiology at **University of Pisa** (Pisa, Italy) 110/110 *cum laude*
2011 – 2014	Bachelor's Degree in Biology at University of Pisa (Pisa, Italy) 110/110 *cum laude*
2006 – 2011	High School Diploma at Liceo Scientifico G. Marinelli (Udine, Italy) 100/100

ADVANCED TRAINING

Jul. 2017	Cajal Course - Interacting with Neural Circuits (Lisbon, Portugal)
Aug. 2016	Cajal Course - Computational Neuroscience (Lisbon, Portugal)

PUBLICATIONS

2019	V. Štih*, **L. Petrucco***, A.M. Kist, & R. Portugues, (2019). Stytra: an open-source, integrated system for stimulation, tracking and closed-loop behavioral experiments. *(accepted, preprint at doi.org/10.1101/492553).*
2018	S. Landi, **L. Petrucco**, F. Sicca, & G.M. Ratto, (2018). Transient cognitive impairment in epilepsy. *Frontiers in molecular neuroscience,* 11, 458.
2017	**L. Petrucco***, Pracucci E.*, M. Brondi, G.M. Ratto, S. Landi (2017), Epileptiform activity in the mouse visual cortex interferes with cortical processing in connected areas *Scientific Reports* 7:40054.

LABORATORY SKILLS

Imaging	Confocal microscopy, *in vivo* and *in slice* voltage-sensitive dye and calcium imaging by two-photon microscopy in mice and zebrafish; light-sheet microscopy of behaving zebrafish.
Electrophysiology	*in vivo* local-field-potential and cell-attached recordings in anesthetized mice and paralyzed zebrafish; basic experience with whole-cell recordings *in slice*.
Molecular Biology	PCR, cloning, protein purification, transgenic zebrafish generation by embryo injections.

COMPUTER SKILLS

Operative Systems	Familiarity with Windows, Mac, and Linux.
Programming Languages	Proficiency with MATLAB and **Python**; Qt based-GUI design; ImageJ scripting; fundamentals of C; basic experience with **Labview** programming and **Arduino**.
Others	Experienced user of software for image manipulation (Photoshop, Gimp), professional design (Illustrator, InDesign, Inkscape), 3D modelling (Blender), and LaTeX.

AWARDS

Jul. 2015	**Armenise-Harvard Fellowship** (*Armenise-Harvard Foundation*)
Jun. 2013	**RISE Scholarship** (*German Academic Exchange Service - DAAD*)
Sept. 2011	**Full maintenance 5-years scholarship** (*Scuola Normale Superiore*)

LANGUAGES

Native	Italian
Proficient User	English
Beginner	German