Luigi Petrucco

graduate student @ Portugues lab
Max Planck Institute for Neurobiology

DETAILS
birth 22/11/1992, Italy
email lpetrucco@neuro.mpg.de
github github.com/vigji
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EXPERIENCE

Sept. 2017 - ongoing	Ph.D. at **Max Planck Institute of Neurobiology** (München, Germany) Sensorimotor control in the zebrafish 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 the cortico-thalamic circuit 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

PUBLICATIONS

2020	Markov, D. A., Kist, A. M., **Petrucco, L.**, & Portugues, R. (2020). The cerebellum recalibrates a feedback controller involved in motor control. [*submitted*] preprint at *bioRxiv*: doi.org/10.1101/2020.02.12.945956.
2019	Štih, V.*, **Petrucco, L.***, Kist, A. M., & Portugues, R. (2019). Stytra: an open-source, integrated system for stimulation, tracking and closed-loop behavioral experiments. *PLoS computational biology,* 15(4), e1006699.
2018	Landi, S., **Petrucco, L.**, Sicca, F., & Ratto, G. M. (2019). Transient cognitive impairment in epilepsy. *Frontiers in molecular neuroscience*, 11, 458.
2017	**Petrucco, L.***, Pracucci, E.*, Brondi, M., Ratto, G. M., & Landi, S. (2017). Epileptiform activity in the mouse visual cortex interferes with cortical processing in connected areas. *Scientific reports*, 7(1), 1-12.

*authors contributed equally

OPEN SOURCE SOFTWARE

Stytra: a modular package for stimulus generation, online behavioral tracking and hardware control for zebrafish neuroscience experiments.

BrainGlobe: a python toolbox for morphological analyses in systems neuroscience.

ADVANCED TRAINING

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

LABORATORY SKILLS

Imaging	Light-sheet microscopy of behaving zebrafish, *in vivo* and *in slice* voltage-sensitive dye and calcium imaging by two-photon microscopy in mice and zebrafish. Familiarity with the aligment and maintenance of light-sheet and two-photon microscopes.
Electrophysiology	*In vivo* local-field-potential and single cell recordings in anesthetized mice and paralyzed zebrafish; some experience with whole-cell recordings *in slice*.
Molecular Biology	Cloning, 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 **R** and **Julia**; C in Arduino applications; LabView
Others	Advanced 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