Luigi Petrucco

postdoc @ lurilli lab

Italian Institute of Technology - IIT

DETAILS

birth   22/11/1992, Italy

email   lpetrucco@gmail.com

github   github.com/vigji

website vigji.github.io

EXPERIENCE

May 2022 - ongoing	Postdoc at **Italian Institute of Technology** (Rovereto, Italy) Supervisor: Dr. Giuliano Iurilli
Sept. 2017 – April 2022	Ph.D. in Neuroscience at **Max Planck Institute of Neurobiology** (München, Germany) Supervisor: Dr. Ruben Portugues
Oct. 2014 – Sept. 2016	Master Thesis at **Scuola Normale Superiore** (Pisa, Italy) Supervisor: Prof. Gian M. Ratto
Jul. – Sept. 2015	Internship at **Harvard University** (Cambridge, Massachusetts) Supervisor: Dr. Takao K. Hensch

EDUCATION

2016 – 2022	PhD at Graduate School in Systemic Neuroscience at **LMU** (München, Germany)
2014 – 2016	Master Degree in Neurobiology at University of Pisa/Scuola Normale Superiore (Pisa, Italy) 110/110 *cum laude*
2011 – 2014	Bachelor's Degree in Biology at University of Pisa/Scuola Normale Superiore (Pisa, Italy) 110/110 *cum laude*

PUBLICATIONS

2022	**L Petrucco***, H Lavian*, YK Wu, F Svara, V Štih, R Portugues (2022) Neural dynamics and architecture of the heading direction circuit in a vertebrate brain. [bioaRxiv]
	Y Xiao, **L Petrucco**, LJ Hoodless, R Portugues, T Czopka (2022) Oligodendrocyte Precursor Cells Sculpt the Visual System by Regulating Axonal Remodeling. *Nature Neuroscience* 25, 280–284.
2021	DA Markov, **L Petrucco**, AM Kist, & R Portugues (2021) The cerebellum recalibrates a feedback controller involved in motor control. *Nature Communications* 12, 6694.
	F Claudi, AL Tyson, **L Petrucco**, TW Margrie, R Portugues, T Branco (2021) Visualizing anatomically registered data with brainrender. *eLife, 10, e65751*: doi.org/10.7554/eLife.65751.
2020	F Claudi*, **L Petrucco***, AL Tyson*, T Branco, TW Margrie, R Portugues (2020) BrainGlobe Atlas API: a common interface for neuroanatomical atlases. *Journal of Open Source Software* 5 (54), 2668 doi.org/10.21105/joss.02668
2019	V Štih*, **L Petrucco***, AM Kist, & R Portugues (2019). Stytra: an open-source, integrated system for stimulation, tracking and closed-loop behavioral experiments. *PLoS computational biology,* 15(4), e1006699.

2018	S Landi, **L Petrucco**, F Sicca, & GM Ratto (2019). Transient cognitive impairment in epilepsy. *Frontiers in molecular neuroscience*, 11, 458.
2017	**L Petrucco***, E Pracucci*, M Brondi, GM Ratto, & S Landi (2017). Epileptiform activity in the mouse visual cortex interferes with cortical processing in connected areas. *Scientific reports*, 7(1), 1-12.

*authors contributed equally

INVITED TALKS

March 2022	Cosyne 2022: A network that integrates heading direction in the larval zebrafish brain (link)
November 2020	Neuromatch 2020: BrainGlobe: a Python ecosystem for computational (neuro)anatomy (link)

SOFTWARE CONTRIBUTIONS

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)

COMPUTER SKILLS

Proficiency with **Python**; MATLAB**;** fundamentals of **R** and **Julia**; C in Arduino applications; LabView; shell scripting; version control using GitHub and CI with Travis/GitHub actions

Image manipulation (Photoshop, Gimp), professional design (Illustrator, InDesign, Inkscape), 3D modelling (Blender), LateX.

AWARDS

Jul 2015	**Armenise-Harvard Fellowship** (*Armenise-Harvard Foundation*)
Jun 2013	**RISE Scholarship** (*German Academic Exchange Service - DAAD*)