

Federico CLAUDI

PERSONAL DATA

PLACE AND DATE OF BIRTH:	Milano, Italy 21 March 1993
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EDUCATION

2017 - PRESENT	PhD in "Experimental and theoretical systems neuroscience" Sainsbury Wellcome Centre, University College London , London, UK. Supervisor: Dr. Tiago Branco
2015 - 2016	Master in Research in "Integrative Neuroscience" University of Edinburgh , Edinburgh, UK. Supervisor: Dr. Ian Duguid Master project title: Characterising the role of dopamine in mouse motor cortex for the control of skilled motor movements. GPA: 3.97/4 Detailed List of Exams
2012 - 2015	Bachelor in "Medical Biotechnologies" Università degli Studi , Milano, Italy. Dissertation project title: The role of CXCL4 in the differentiation of M4 macrophages. FINAL GRADE: 107/110 GPA: 3.34/4 Detailed List of Exams

RESEARCH EXPERIENCE

2017 - present	PhD student in the laboratory of Dr. Tiago Branco. Sainsbury Wellcome Centre, University College London , London, UK.
2016 - 2017	Visiting scientist in the laboratory of Dr. Ian Duguid. University of Edinburgh , Edinburgh, UK.
2015 - 2016	Master project in the laboratory of Dr. Ian Duguid. University of Edinburgh , Edinburgh, UK.
2015 - 2015	Bachelor dissertation project. Katholiege Universiteit , Leuven, Belgium.
2011 - 2011	Summer internship in the laboratory of Dr. Filippo Mancia. Columbia university , New York City, USA.
2011 - 2011	Summer internship. Università degli Studi , Milano, Italy.
2010 - 2010	Summer internship in the laboratory of Dr. Filippo Mancia. Columbia university , New York City, USA.

EXTRACURRICULAR STUDY

- 2015 - 2015 Online Course in "Medical Neuroscience"
 Duke University, USA.
 Attended on: coursera.org
- 2015 - 2015 Online Course in Synapses, Neurons and Brain"
 Hebrew University, Jerusalem, Israel.
 Attended on: coursera.org

PUBLICATIONS

- 2020 *Brainrender. A python based software for visualisation of neuroanatomical and morphological data*
 Federico Claudi, Adam L. Tyson, Tiago Branco
 bioRxiv (2020) <https://doi.org/10.1101/2020.02.23.96174>.
- 2019 *Cerebellar-recipient motor thalamus drives behavioral context-specific movement initiation*
 Joshua Dacre, Matt Colligan, Julian Ammer, Julia Schiemann, Thomas Clarke, Victor Chamosa- Pino, **Federico Claudi**, J. Alex Harston, Constantinos Eleftheriou, Janelle M.P. Pakan, Cheng-Chiu Huang, Adam Hantman, Nathalie L. Rochefort, Ian Duguid
 bioRxiv (2019) [Under review at *Neuron*] <https://doi.org/10.1101/802124>.
- 2016 *CXCL4 and CXCL4L1 Differentially Affect Monocyte Survival and Dendritic Cell Differentiation and Phagocytosis.*
 Gouwy M, Ruytinx P, Radice E, **Claudi F**, Van Raemdonck K, Bonecchi R
 PLoS ONE (2016) <https://doi.org/10.1371/journal.pone.0166006>.

TEACHING & MENTORING

- 2019 Teacher at Braincamp
 ATOMI institute, Pristina, Kosovo.
 <https://www.xhmfoundation.com/braincamp-kosovo-2019>
- 2016 Training of colleagues in microsurgical and quantitative behavioural techniques
 University of Edinburgh, Edinburgh, UK.

OPEN SOURCE PROJECTS

- 2020 Brainrender.
 A python based software for visualisation of neuroanatomical and morphological data
 <https://github.com/BrancoLab/BrainRender>
- 2019 Scidraw.
 A free online repository of high-quality drawings for scientific illustrations.
 <https://scidraw.io/>

SKILLS AND COMPETENCES

<i>Technical skills</i>	<i>In vivo</i> whole cell electrophysiology. <i>In vivo</i> subcortical fiberscope imaging. Microsurgical techniques. Anatomical circuit tracing. Development of bespoke behavioural paradigms. Development of Matlab and Python scripts for the analysis of behavioural and physiological data. Development of Python scripts for the analysis and visualisation of anatomical data. Development of Arduino and Python scripts for the control of behavioural setups and data acquisition. Development and design of websites. 3D design and manufacturing.
<i>Programming languages</i>	Proficient in: Python Intermediated in: Matlab, LaTeX, HTML, CSS, Arduino. Basic in: mysql
<i>Languages</i>	Native in Italian proficient in English (111/120, Toefl test).

FELLOWSHIPS AND AWARDS

- 2020 Wellcome Trust 4-Year PhD Fellowship.
Sainsbury Wellcome Centre, University College London, London, UK.
- 2015 Erasmus scholarship for the bachelor project in Leuven, Belgium.
Università degli Studi, Milano, Italy.

INTERESTS AND ACTIVITIES

Technology, Open-Source, Programming
Neuroscience, Physics, Mathematics
Travelling, rock climbing

Master in Research in INTEGRATIVE NEUROSCIENCE

Grades

EXAM	MARK	GRADE	CREDIT HRS
Review of Neuroscience	61	B	20
Research Training I	72	A3	20
Research Training II	75	A3	20
Presenting Neuroscience Research Data	73	A3	20
Research Proposal	75	A3	20
Masters Dissertation	76	A3	80

Total	180
GPA	3.97/4.00

Undergraduate Degree in MEDICAL BIOTECHNOLOGIES

Grades

EXAM	MARK	CREDIT HRS
General and Inorganic Chemistry	20/30	8
Mathematics and introduction to informatics	30+/30	6
General Biology	25/30	8
Physics	29/30	9
Genetics	25/30	8
Human Anatomy and Histology	30/30	7
Organic Chemistry	25/30	8
Human Physiology	30/30	7
Molecular Biology	30+/30	7
Cellular and Molecular Methodologies	24/30	10
General Pathology and Immunology	26/30	10
Biochemistry and Fundamentals of Human Biochemistry	30/30	11
Microbiology and Medical Virology	28/30	6
Bioethical and Legal Issues in Biotechnology	26/30	9
Human Molecular Genetics	30/30	6
Biotechnologies in Molecular Diagnostics and Fundamental of Statistics	24/30	9
Physiopathology, Introduction in Biotechnologies Diagnostic and Therapy	26/30	9
Medical Pharmacology	26/30	10
English	approved	2
Training	approved	8
Applications of Biotech on Medicine	24/30	6
Optional Activities	approved	12
Final Examination	approved	4
	Total	180
Final Grade	107/110	
GPA	3.34/4.00	