VALERIA BONAPERSONA

I am fascinated by the **cyclical nature of hormones** as a key principle of life. I am interested in the application of **mathematical models** to unmask patterns that cannot be seen with the naked eye. Building upon my **previous experience** in endocrinology, meta-analysis and Bayesian statistics, I am looking for a creative environment where to **unravel hormonal dynamics** at the very core of who *we* are.

active learner | inquisitive thinker | self-standing | solution oriented | heart-driven

CONTACT

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🏳️ Italian

RESEARCH SKILLS

Neuroendocrinology

Evidence synthesis

Reproducibility

Developing methods for

data analysis

Experimental design

Open Science

Whole-brain microscopy

Animal models

RESEARCH EXPERIENCE

2017 - Jan 2022
UMC Utrecht (NL)

PhD candidate Neuroscience and Statistics

○ Thesis: "Avenues of Open Science in stress research"

○ Promotors: Prof. M. Joels, Prof. H. Hoijtink

○ 1st author: 4 published, 3 under review, 2 in preparation. Personal favourite:

> **Bonapersona**, V., et al. "Increasing the statistical power of animal experiments with historical control data." *Nature Neuroscience* 24.4 (2021): 470-477.

○ Last author: 1 in preparation

○ Software developed: 1 R package, 1 interactive statistical software, 1 database, 4 interactive data visualizations and analyses

○ Teaching: Supervisor 4x students for internships (5-9 months), 3x for theses (2 months), 3x co-supervisions (2-9 months). Lecturer in 10 courses (Bachelor/Master, 4 universities). Supervision 10 practicals. Currently working towards a teaching certification for higher education (BKO).

○ Conferences/symposia: 19 (inter)national, of which 12 for invited oral presentation

○ Reviewer for 4 journals

2017
Univ. of Edinburgh (UK)

Research internship endocrinology (6 months)

○ Project: *In vitro* and *in vivo* experiments to investigate glucocorticoids' delivery to tissues

○ Lab: Prof. B. Walker

2015 - 2016
Utrecht University (NL)

Research internship animal models (11 months)

○ Project: Stress receptors and HPA axis reactivity in a rodent model

○ Lab: dr. R. A. Sarabdjitsingh

2013 - 2015

Additional research internships

- 7 months. Protocol human study, observational and semi-qualitative research. Lab: Dr. J. de Graaf (WKZ, NL)
- 4 months. Neuronal morphology, epilepsy, animal models. Supervisor: Dr. J. van Campen (UU, NL)

OTHER RELEVANT EXPERIENCE

2019 - present

Database developer and maintainer (stress-nl)

2018 - present

Consortium founder and coordinator (RELACS, Rodent Early Life Adversity Consortium on Stress)

2009 - present

Student representative (PhD: 2017- present; Master: 2015-2017; High school: 2009-2012)

EDUCATION

2017 - present

Postgraduate courses (selection)

- Differential equations (MOOC, 2020)
- Advanced OMICS algorhythms and data analysis (CS&D, 2020)
- Individual participant data meta-analyses (Julius Center, 2020)
- Neurobiology of stress and resilience (NSAS, 2018)
- Teaching Neuroscience (UU, 2020/2021), Reproducible code (2019), Philosophy of Science (2018)

2015 - 2017

MSc Neuroscience and Cognition (*cum laude)*

- Utrecht University (NL). GPA: 4.0
- Chief student journal Neuroscience and Cognition

2012 - 2015

Bachelor of Science (*cum laude)*

- University College Utrecht (NL). GPA: 3.79
- Minor: Psychology and Statistics

2006 - 2016

Diploma Superiore in Piano Performance (*9.5/10)*

- Conservatorium Alessandria (IT). Maestro R. Plano

2007 - 2012

Liceo Scientifico (*97/100)*

- "Galileo Ferraris" (Varese, IT)
  Semester abroad (Huntsville, CA)