

# KARIN MORANDELL

Data Scientist | Neuroscience PhD

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C work permit, Italian nationality

## STRENGTHS

### DATA ANALYSIS AND MODELING

Proficient several programming languages with experience in machine learning (deep learning, computer vision, AI, data modelling) and algorithm development for task designing.

### VERSATILE NEUROSCIENCE EXPERTISE

Solid fundamentals with focus on sensory-motor neuroscience, brain-machine interface and mental health. Critical thinking and continuous learning mindset.

### TEAM WORK AND MANAGEMENT

Proven track record of working, teaching and mentoring in diverse teams, effectively communicating complex scientific concepts through engaging presentations at renowned conferences. Published 5 scientific papers. Funded my research. Launched several networking events and a community-based organic vegetable delivery system for 60 NYU homes.

## EXPERIENCE

### Auditory Neuroscience Swiss National Foundation Postdoctoral Fellow

2019-2023 New York University, NYC (Schneider lab)

- Project: Impact of behavioral states on sound processing and perception in mice.
- Skills: data processing pipelines, closed-loop task design, auditory virtual reality, sound processing, computational methods, machine learning, protocol writing, mentoring, science communication.

Morandell et al. (submitted to J. Neuroscience)

### Postdoctoral researcher in Somatosensory Neuroscience

2018-2019 University of Geneva (Huber lab)

- Project: Demonstrate how mice perceive vibrations through their paws.
- Skills: behavioral task design, closed-loop systems, automated behavioral tasks.

Prsa, Morandell, Cuenu, and Huber (2019, Nature)

### PhD candidate, specialisation Motor Neuroscience and Decision Making

2012-2017 University of Geneva (Huber lab)

- Project: Contribution of motor cortex to the planning and execution of forelimb movements.
- Skills: behavioral task design, scientific writing, science communication, automating behavioral training and analysis, MATLAB, JAVA.

Morandell and Huber (2017, Scientific Reports)

Guo et al. (2014, PLOS One)

## EDUCATION

### PhD in Neuroscience (5.5/6, magna cum laude)

2012-2017 University of Geneva

### Masters in Physiology and Neuroscience

2009-2011 UPMC University (Paris VI)

### Bachelor in Biology

2006-2009 UPMC University (Paris VI)

## SKILLS

- Statistical Analysis and Modeling
- Machine Learning
- Data Visualization
- Computer Vision
- Supervised and Unsupervised Learning

## TECH LANGUAGES

- Python (Tensorflow, Keras, BeautifulSoup, scikit-learn)
- MATLAB
- C++
- JAVA
- HTML

## LANGUAGES

- French
- English
- German
- Italian
- Spanish

## ABOUT ME

### PERSONALITY

- solution-oriented
- positive
- curious
- open-minded
- social

### INTERESTS

- life science
- AI
- globetrotting
- diving
- dancing