



# John Kirwan, PhD

Computational Biologist and Senior Scientist

Extensive experience in computational biology and machine learning applied to drug discovery and biological research.

## EXPERIENCE

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## KEY SKILLS

- Python
- R
- Git
- PyTorch
- Boltz
- Docker
- Valohai

## LANGUAGE

- Native English Speaker
- B2 Swedish & Spanish

### **Bioinformatics Scientist — Arquimea Research Centre, La Laguna, Spain (Jul 2022–present)**

- Senior Scientist in AI, collaborating with Biochem
- Develop and maintain data workflows for biological data
- Track advances in bioinformatics, ML, and drug discovery

### **Postdoctoral Researcher — Stazione Zoologica Anton Dohrn, Naples, Italy (2019–2022)**

- Ran behavioral experiments to assess visual capabilities
- Performed Bayesian statistical analyses

### **Project Manager — Lund University, Sweden (Jun–Aug 2019)**

- Designed and ran vision science behavioural experiments using R and Matlab. Co-advised MSc student.

### **Doctoral Researcher — Lund University, Sweden (2013–2018)**

- PhD on simple visual systems using R, Matlab, and Python
- Interdisciplinary work combining optics and statistics
- Developed novel methods to measure spatial resolution
- Applied Bayesian multilevel regression models

## EDUCATION

### **PhD — Lund University, Sweden (2013–2018)**

- Thesis: Spatial Vision in Diverse Invertebrates

### **M.Sc. by Research — University College Dublin, Ireland (2008–2010)**

- Thesis: The Molecular Evolution of Hearing in Mammals

### **B.Sc. (Hons) Zoology — University College Dublin, Ireland (2005–2008)**

- First Class Honours (Distinction)