

# François Cinotti

## Computational Biologist

---

### Contact

Thatcham, Berkshire, UK  
(+44) 7 523 426 723  
francois.cinotti@gmail.com  
linkedin.com/in/francoiscinotti/

### Key Skills

Python / MATLAB / R  
HPC : MPI, bash  
Reinforcement Learning  
Behavioural modelling  
Bayesian inference  
Software design  
Data analysis  
Scientific communication

### Education

**2016-2019** : PhD in  
computational neuroscience,  
Université Paris Sorbonne

**2014-2015** : MSc in cognitive  
neuroscience, Université Paris  
Descartes

**2013-2014** : MSc in  
interdisciplinary approaches to  
life sciences,  
Université Paris Diderot

**2011-2014** : Engineering  
degree from AgroParisTech, a  
French "Grande Ecole"

### Profile

With a background in biological modelling, and a particular focus on learning and decision-making behaviour, I am keen to expand my computational skillset in the field of data analysis. Analytical and intellectually curious, I am looking for an opportunity to solve real-world problems in a business setting.

### Experience

*February 2022—Present*

Postdoctoral research assistant • University of Reading

- Designed a model of thrombosis including fluid dynamics.
- Parameter optimisation on a high performance computing cluster.
- Collaboration with an interdisciplinary team of researchers involving philosophers and scientists, multiple publications and scientific talks.
- Built an app in R shiny for the interactive analysis of biological data.

*January 2021—February 2022*

Postdoctoral research assistant • University of Oxford

- Cleaned and analysed an experimental dataset.
- Designed, fitted, and simulated a model of foraging behaviour based on long- vs. short-term reward rates comparison.
- Collaborated remotely with a team of American researchers which led to a successful publication.
- Supervision of a master student internship.

*June 2019—January 2021*

Postdoctoral research fellow • University of Nottingham

- Developed a Bayesian method for estimating connection rates.
- Wrote and published results in the Journal of Neuroscience.
- Conference presentation of results.

*September 2015—June 2019*

Research engineer/PhD • Institute of Intelligent Systems & Robotics, Paris

- Designed models of meta-learning, reinforcement learning, model-based vs. model-free learning behaviour.
- Fitted the models to experimental data through optimisation of log-likelihood.
- Analysis of experimental and synthetic data (repeated-measures ANOVA, parametric and non-parametric tests, PCA).
- Wrote and published results in peer-reviewed journals.