

Kristopher Torp Jensen

University of Cambridge
Computational and Biological Learning Lab

ktj21@cam.ac.uk
Jesus College, Cambridge UK

Education

- 2019 - present **PhD Computational Neuroscience**
University of Cambridge
Supervisor: [Dr Guillaume Hennequin](#)
Probabilistic modelling of spatial learning and representations [Jensen et al. \[2020\]](#)
- 2018 - 2019 **MPhil Computational Biology**
University of Cambridge & Harvard Center for Brain Science
Dissertation: "Long-Term Stability of Neural Dynamics
Underlying Stereotyped Behavior"
Result: Distinction (89.1/100; 1st of 19 students)
- 2015 - 2018 **BA Natural Sciences**
University of Cambridge
Specialization: Molecular Biology & Theoretical Chemistry
Result: First Class Honors (82.7/100; 1st of 112 students)

Research

- 2019 - present **Harvard Center for Brain Science**
Supervisor: [Professor Bence Ölveczky](#)
Analysis of extracellular recordings from stereotyped motor tasks
"Long-term stability of neural dynamics underlying learned and innate motor behaviors"
in progress
- 2018 - 2019 **Janelia Research Campus**
Supervisor: [Professor Vivek Jayaraman](#)
Analysis of EM & RNAseq data and biophysical modelling of *Drosophila* neurons
[Turner-Evans et al. \[2019\]](#)
- 2017 - 2018 **Cambridge Centre for Computational Chemistry**
Supervisor: [Dr Alex Thom](#)
Development of a HF-based method for *in silico* modelling of electron transfer reactions
[Jensen et al. \[2018\]](#)
- 2016 - 2017 **Aarhus University Department of Biomedicine**
Supervisor: [Dr Yonglun Luo](#)
Investigation of factors affecting the efficiency of CRISPR/Cas9 for genome editing
[Jensen et al. \[2017\]](#)

Teaching

- 2018 - present **University of Cambridge**
Supervisor (Teaching Assistant) - Theoretical chemistry (3rd year)
- 2016 **Brookhouse International School, Nairobi Kenya**
Cambridge Summer Teachers

Awards

2019 - present **Cambridge Gates Scholar**

2018 **Janelia Undergraduate Scholar**

Undergraduate Prizes

2016 - 2019 Scholar of Magdalene College, Cambridge

2018 GWHP Memorial Prize for best performance in undergraduate chemistry
Gill, Bundy & B.C. Saunders prizes for excellence in university examinations
BP Prize for the best performance in practical chemistry

2017 BP Prize for the best performance in theoretical chemistry
Keilin Prize for excellence in university examinations

2016 B.C. Saunders Prize for excellence in university examinations

2015 *British Chamber of Commerce in Denmark Scholar*

Other awards

2015 SIYSS participant

First place - The Danish National Science Fair (life science)

2014 & 2015 Silver medal - The International Chemistry Olympiad

First place - The Scandinavian Chemistry Olympiad

Programming Experience

Python, Julia, R - significant experience from multiple research projects and courses

MATLAB - significant experience from scientific coursework and data analysis

OCaml - basic proficiency

L^AT_EX, git, cluster computing

Misc

2017 - 2019 President - Magdalene College Science Society

2017 - 2018 Vice-captain - Cambridge University Mixed Lacrosse Club

2014 - 2015 Board member - Højbjerg Dreng boyscouts

2013 - 2015 Scout leader - Højbjerg Dreng boyscouts

Publications

- Kristopher T. Jensen, Lasse Fløe, Trine Skov Petersen, Jinrong Huang, Fengping Xu, Lars Bolund, Yonglun Luo, and Lin Lin. Chromatin accessibility and guide sequence secondary structure affect CRISPR-Cas9 gene editing efficiency. *FEBS Letters*, 591(13):1892–1901, 2017. URL <http://doi.wiley.com/10.1002/1873-3468.12707>.
- Kristopher T. Jensen, Raz L. Benson, Salvatore Cardamone, and Alex J.W. Thom. Modeling Electron Transfers Using Quasidiabatic Hartree-Fock States. *Journal of Chemical Theory and Computation*, 14(9):4629–4639, 2018. URL <https://doi.org/10.1021/acs.jctc.8b00379>.
- Kristopher T. Jensen, Ta-Chu Kao, Marco Tripodi, and Guillaume Hennequin. Manifold GPLVMs for discovering non-Euclidean latent structure in neural data. 2020. URL <http://arxiv.org/abs/2006.07429>.
- Daniel B Turner-Evans, Kristopher T. Jensen, Saba Ali, Tyler Paterson, Arlo Sheridan, Robert P Ray, Scott Lauritzen, Davi Bock, and Vivek Jayaraman. The neuroanatomical ultrastructure and function of a biological ring attractor. *bioRxiv*, 2019. URL <https://www.biorxiv.org/content/10.1101/847152v2>.