

JAN CROSS-ZAMIRSKI

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SUMMARY

I am PhD student under the supervision of Professor Carola-Bibiane Schönlieb in the Cambridge Image Analysis group at DAMTP, University of Cambridge. We collaborate with Dr Yinhai Wang and the Quantitative Biology group at AstraZeneca.

EDUCATION

Cambridge Image Analysis Group, DAMTP, University of Cambridge 2018 - 2022

Ph.D. Candidate

Supervisors: [Professor Carola-Bibiane Schönlieb](#), [Dr. Yinhai Wang](#)

Natural Sciences - Physics, University of Cambridge 2017 - 2018

Master of Science (MSci), Part III

Research Project: [Machine Learning Tools for Predicting Cognitive Health](#) with [Professor Zoe Kourtzi](#)

Director of Studies: [Professor Pietro Cicuta](#)

Natural Sciences - Physics, University of Cambridge 2014 - 2017

Bachelor of Arts (BA), Part II

Projects: [Computational](#), [Experimental](#)

Director of Studies: [Professor Mark Warner](#)

EXPERIENCE

AstraZeneca January 2019 -

Quantitative Biology research group

Bank of America Merrill Lynch June 2017 - August 2017

Summer Analyst. Equities electronic trading, portfolio and ETF trading

BNP Paribas June 2016 - September 2016

Summer Analyst. Automated market making, fixed income flow trading

Isaac Physics August 2013 - September 2014

Content creator at <https://isaacphysics.org/>

PUBLICATIONS AND PREPRINTS

Self-Supervised Learning of Phenotypic Representations with Weak Labels

arXiv Preprint (2022).

Jan Cross-Zamirski, Elizabeth Mouchet, Guy Williams, Carola-Bibiane Schönlieb, Riku Turkki & Yinhai Wang

<https://arxiv.org/abs/2209.07819>

Label-Free Prediction of Cell Painting from Brightfield Images

Sci Rep 12, 10001 (2022).

Jan Cross-Zamirski, Elizabeth Mouchet, Guy Williams, Carola-Bibiane Schönlieb, Riku Turkki & Yinhai Wang

<https://www.nature.com/articles/s41598-022-12914-x>

SELECTED AWARDS

UKRI-BBSRC DTP Studentship Award *2018 - 2022*

Fully Funded Ph.D. studentship from the BBSRC, supported by AstraZeneca.

Total award value: £100,000

Hawks Charitable Trust Recipient *2019 - 2022*

Awarded annually for academic and sporting excellence while competing for CUCC and CUAC.

Total award value: £1000

Corpus Project Prize for Natural Sciences (Physics) *2018*

For those in their final year who achieved first-class marks for a dissertation or project

Full Blue *2018 - 2021*

Cambridge University Cricket Club (CUCC).

Full Blue and First Class debut

Academic Scholar *2006 - 2013*

Academic Scholar at the Perse School

TALKS AND CONFERENCES

AstraZeneca PhD Student Symposium *April 2021*

Presented Poster

CytoData2020 *October 2020*

Attendee

MICCAI 2020 *October 2020*

Attendee

MedTech Boost - Cambridge MemTech *September 2019*

Awarded [prize](#) for the best impact on healthy ageing with innovative solutions for early detection of dementia.

TEACHING

Undergraduate Supervisor *2019 - 2020*

Natural Sciences Tripos, University of Cambridge.

Supervised the Mathematical Biology course at Jesus College and St. Catharine's College.

Freelance Tutor *2014 -*

A-Level Mathematics and Physics, university admissions tutoring,

English as a Foreign Language (TEFL).

EXTRA INFORMATION

Languages	Python, Matlab, R.
Packages	PyTorch, Keras, Pandas, SciPy, NumPy
Software	CellProfiler, ImageJ, MRICron