# 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 quantitive biology group at AstraZeneca.

## EDUCATION

**Cambridge Image Analysis Group, DAMTP, University of Cambridge** *2018 - 2022*
Ph.D. Candiate
*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

**Weakly self-supervised learning of phenotypic representations**
*Preprint in progress,* (2022).
**Jan Cross-Zamirski**, Elizabeth Mouchet, Guy Williams, Carola-Bibiane Schönlieb, Riku Turkki & Yinhai Wang
https://github.com/crosszamirski

**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 anually 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

## EXTRA INFORMATION

**Languages** Python, Matlab, R.
**Packages** PyTorch, Keras, Tensorflow