# KASIA KEDZIERSKA

I am a 3rd year PhD student at the University of Oxford. I am a computational biologist, i.e., I use Data Science and Statistical Machine Learning to answer biological questions. Specifically, I study cancer of the uterus and chromatin organisation in disease progression.

### ■ SELECTED RESEARCH EXPERIENCE

2022 2018

#### **DPhil Candidate**

Wedge group and Church group

• University of Oxford, UK

· PhD project: Functional and evolutionary characterisation of chromatin organisation in endometrial cancer

2018 2017

#### **Visiting Graduate Student**

#### Ratan group

Our University of Virginia, USA

- · Developed SONiCS a tool for genotyping short tandem repeats (STRs) profiled using capture assays.
- · Worked on the Master thesis Analysis of the mutational burden across gene sets in cancer.

2016 2015

#### **Research Assistant**

Zebrafish Developmental Genomics

**Q** IIMCB, Warsaw, Poland

- · I worked on the project: Elucidating gene regulatory network of zebrafish heart development using genomics.
- · I was responsible for both computational and experimental aspects of the project.



#### **EDUCATION**

2022 2018

DPhil. Candidate, Genomic Medicine and Statistics

Nuffield Department of Medicine, Brasenose College

• University of Oxford, UK

· PhD fully funded by Wellcome Trust Four-year PhD Studentships in Science

2018 2015

#### M. Sc. Eng., Biotechnology

Warsaw University of Technology

• Warsaw, Poland

- · Thesis: Analysis of the mutational burden across gene sets in cancer.
- · Thesis awarded the best Master thesis in Bioinformatics defended in 2018 title.



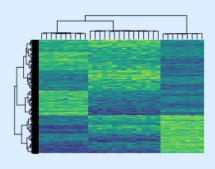
### PUBLICATIONS

2020

The *MLH1* polymorphism rs1800734 and risk of endometrial cancer with microsatellite instability

H. Russell, K. Kedzierska, D. D. Buchanan, R. Thomas, E. Tham, M. Mints, A. Keränen, G. G. Giles, M. C. Southey, R. L. Milne, I. Tomlinson, D. Church, A. B. Spurdle, T. A. O'Mara and A. Lewis

• Clinical Epigenetics

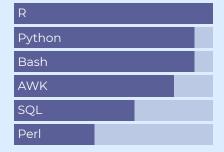


View this CV online kasia.codes/resume/

### **CONTACT**

- kasia@well.ox.ac.uk
- kzkedzierska
- github.com/kzkedzierska
- **6** kasia.codes
- in kzkedzierska

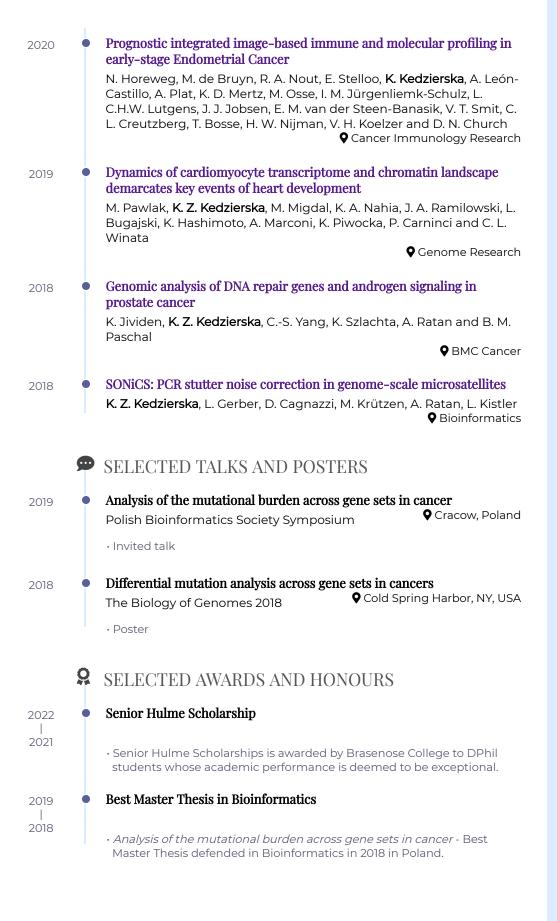
### CODING SKILLS



Made with the R package pagedown.

Based on the Nick Strayer's CV package; modified source code for this CV is available here.

Last updated on 2021-03-11.





## ATTENDED WORKSHOPS, SUMMER SCHOOLS

2019

**Machine Learning Summer School** 

Imperial College London, University College London

**Q** London, United Kingdom



### ♣☐ TEACHING EXPERIENCE

2020

Online tutorials: Python for Data Science and Introduction to Python **♀** YouTube

· I led two Python tutorials: Introduction to Python kasia.codes/talk/intro\_to\_python/ and Python for Data Science kasia.codes/talk/py4ds/.

2020 2019

**Introduction to Managing Code with Git** 

Wellcome Centre for Human Genetics

Oxford, United Kingdom

· I led a 2-hour introduction to working with Git. Materials, including slides and exercises are available at kasia.codes/talk/into\_to\_git/.

2019

Unsupervised learning, Introduction to Python

#NGSchool2019: Machine Learning for Biomedicine Ostróda, Poland

- · Tutor for the Introduction to Python (3 h workshop) and for the Unsupervised learning (1,5 h lecture).
- · Materials for the Introduction to Python are available on github

2019

Introduction to R.

Wellcome Centre for Human Genetics

Oxford, United Kingdom

- · 8 week course in Introduction to R, Data Manipulation, Data Visualisation and RNA-seq data analysis.
- · Materials available on github/kzkedziersa/r\_intro



### € SELECTED GRANTS

2021 2020 Visegrad Grant to organize #NGSchool2020 - postponed until 2021

Visegrad Fund

· 32,190 EUR awarded towards organising #NGSchool2020 and #NGSymposium. Both events are postponed until 2021.



### NON-PROFIT WORK

2021 2018 **President** 

**NGSchool Society** 

- · The goal of the Society is to promote and support science, with emphasis on computational biology.
- · President since 2019; Vice President 2018 2019

I like teaching and deeply believe in Open Science. With #NGSchool Society which I'm the president of, I've been organising Summer Schools in Bioinformatics. #NGSchool2019: Machine Learning for Biomedicine we recorded and published some of the lectures. Nowadays, because of the pandemic, we switched to organising virtual events NGSeminars series. We made all the content publicly available.