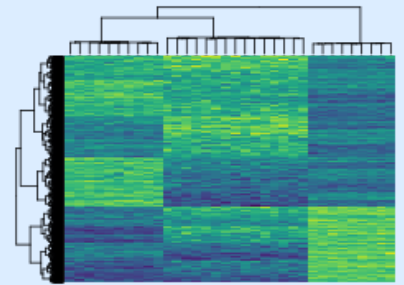


# KASIA KEDZIERSKA

I am a 2nd year DPhil Candidate at the University of Oxford, studying the chromatin organisation in endometrial cancer. As a bioinformatician, I spend most of my time either in command line writing Bash/Awk scripts or doing data analysis in R/Python.

I like teaching and deeply believe in Open Science. I am the President of [#NGSchool Society](#) with which I've been organising Summer Schools in Bioinformatics. During last year edition - [#NGSchool2019: Machine Learning for Biomedicine](#) we recorded and published some of the lectures. This year, during [#NGSchool2020: Statistical Learning in Genomics](#) and [NGSymposium in Computational Biology](#) we plan to record many more.



View this CV online with links at [kasia.codes/resume/](https://kasia.codes/resume/)

## RESEARCH EXPERIENCE

2022  
|  
2018

### DPhil Candidate

[Church group](#) @ [Wellcome Centre for Human Genetics](#), [Wedge group](#) @ [Big Data Institute](#)

📍 University of Oxford, UK

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

2018  
|  
2017

### Visiting Graduate Student

[Ratan](#) group

📍 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*.



## EDUCATION

2022  
|  
2018

### DPhil. Candidate, Genomic Medicine and Statistics

[Nuffield Department of Medicine](#), [Brasenose College](#)

📍 University of Oxford, UK

- Project: *Functional and evolutionary characterisation of chromatin organisation in endometrial cancer*.
- Wellcome Trust Studentship

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 title of the best Master thesis in Bioinformatics defended in 2018.

## CONTACT

✉ [kasia@well.ox.ac.uk](mailto:kasia@well.ox.ac.uk)

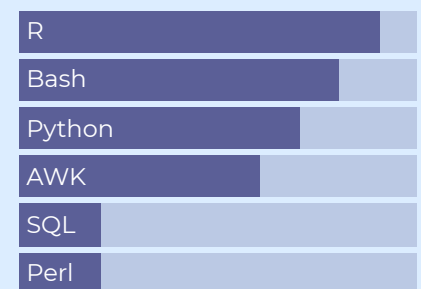
🐦 [kzkedzierska](#)

📄 [github.com/kzkedzierska](https://github.com/kzkedzierska)

🔗 [kasia.codes](#)

in [kzkedzierska](#)

## LANGUAGE 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 2020-02-23.



## PUBLICATIONS

- 2019 • **Dynamics of cardiomyocyte transcriptome and chromatin landscape demarcates key events of heart development**  
Genome Research  
• Regulation networks in heart development in zebrafish.
- 2018 • **Genomic analysis of DNA repair genes and androgen signaling in prostate cancer**  
BMC Cancer  
• DNA repair genes and androgen signalling in prostate cancer cell lines.
- 2018 • **SONICS: PCR stutter noise correction in genome-scale microsatellites**  
Bioinformatics  
• Tool for genotyping short tandem repeats (STRs) profiled using capture assays, [github.com/kzkezdziarska/sonics](https://github.com/kzkezdziarska/sonics)



## SELECTED POSTERS, AND TALKS

- 2019 • **Analysis of the mutational burden across gene sets in cancer**  
Polish Bioinformatics Society Symposium 📍 Cracow, Poland  
• Invited talk
- 2018 • **Differential mutation analysis across gene sets in cancers**  
The Biology of Genomes 2018 📍 Cold Spring Harbor, NY, USA  
• Poster



## SELECTED AWARDS AND HONOURS

- 2019 | 2018 • **Best Master Thesis in Bioinformatics**  
• The Best Master Thesis defended in 2018 in Poland.  
• *Analysis of the mutational burden across gene sets in cancer* Master thesis defended at the Warsaw University of Technology; code for the analyses can be accessed [github.com/kzkezdziarska/cancers](https://github.com/kzkezdziarska/cancers)



## TEACHING EXPERIENCE

- 2019 • **Unsupervised learning, Introduction to Python**  
[#NGSchool2019: Machine Learning for Biomedicine](#)  
• 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

- 8 week course in Introduction to R, Data Manipulation, Data Visualisation and RNA-seq data analysis.
- Materials available on [github/kzkedziersa/r\\_intro](https://github.com/kzkedziersa/r_intro)

2017

### ● ATAC-seq workshop

[#NGSchool2017: Single-cell Sequencing](#)

- Invited speaker
- Materials for the course can be available on [github.com/kzkedzierska/ATACseq\\_workshop](https://github.com/kzkedzierska/ATACseq_workshop)



## ATTENDED WORKSHOPS, SUMMER SCHOOLS

2019

### ● [Machine Learning Summer School](#)

Imperial College London, University College Londn

📍 London, United Kingdom

- 12-day intensive course on a variety of topics in machine learning.



## GRANTS

2019

### ● [Visegrad Grant to organize #NGSchool2019](#)

[Visegrad Fund](#)

- 23,500 EUR awarded towards organising #NGSchool2019 allowed to keep the cost of attending the school to the minimum and record the lectures for broader access.



## 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