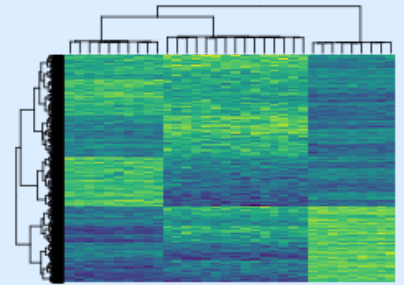


# KASIA KEDZIERSKA

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 while answering biological questions related to cancer of the uterus. Specifically, I study chromatin organisation in endometrial cancer. I spend most of my time either in command line writing Bash/Awk scripts or analysing and visualising data 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, because of the pandemic we switched to organising virtual events, like [NGSseminars series](#).



[Download a PDF of this CV](#)

## 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 best Master thesis in Bioinformatics defended in 2018 title.

## CONTACT

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

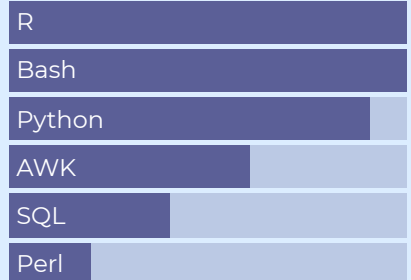
🐦 [kzkedzierska](#)

🔗 [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 2020-11-09.





## 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/kzkedzierska/sonics](https://github.com/kzkedzierska/sonics)



## 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



## AWARDS AND HONOURS

- 2019  
|  
2018
- **Best Master Thesis in Bioinformatics**  
• The Best Master Thesis defended in the field of Bioinformatics 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/kzkedzierska/cancers](https://github.com/kzkedzierska/cancers)



## TEACHING EXPERIENCE

- 2020
- **Online tutorials: Python for Data Science and Introduction to Python**  
NGSeminars  
• I led two Python tutorials: *Introduction to Python* [kasia.codes/talk/intro\\_to\\_python/](https://kasia.codes/talk/intro_to_python/) and *Python for Data Science* [kasia.codes/talk/py4ds/](https://kasia.codes/talk/py4ds/).

2020  
|  
2019

### ● **Introduction to Managing Code with Git**

Wellcome Centre for Human Genetics

- I led a 2-hour introduction to working with Git. The session aims at highlighting the advantages of working with Git as well as providing participants knowledge how to use Git.

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](#)



## ATTENDED WORKSHOPS, SUMMER SCHOOLS

2019

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

Imperial College London, University College London

📍 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