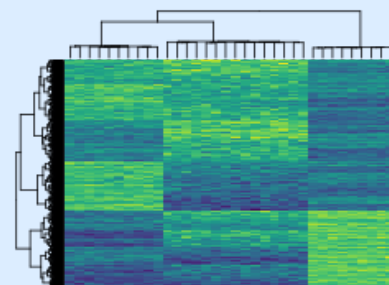


# KASIA KEDZIERSKA

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.



[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.*

2017  
|  
2016

### Visiting Graduate Student

[Pemberton group](#)

📍 University of Virginia, USA

- Worked on Epigenetic regulation in prostate cancer.
- Performed experiments and analyzed data from RNA-seq, ATAC-seq, and CHIP-seq assays.

2016  
|  
2015

### Research Assistant

[Zebrafish Developmental Genomics](#)

📍 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.

## CONTACT

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

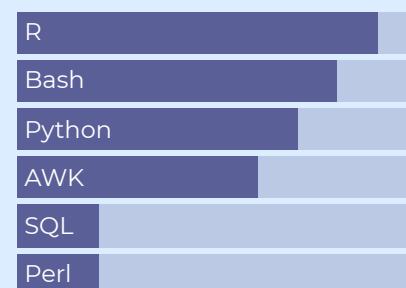
🐦 [kzkedzierska](#)

🔗 [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 2020-10-15.



## 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.

2015  
|  
2011

### **B. Sc. Eng., Biotechnology**

Warsaw University of Technology

📍 Warsaw, Poland



## PUBLICATIONS

2020

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

- *MLH1* promoter polymorphism, rs1800734, association with MSI EC risk.

2020

### **Prognostic integrated image-based immune and molecular profiling in early-stage Endometrial Cancer**

- Quantification of intraepithelial CD8+ cells improved upon the prognostic utility of the molecular EC classification in early-stage EC

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)



## 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
- 2017
- **Epigenetic regulation of prostate cancer**  
Visiting Graduate Traineeship Program Grantees Symposium  Charlottesville, VA, USA
    - Talk



## 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/kzkezdziarska/cancers](https://github.com/kzkezdziarska/cancers)
- 2017  
|  
2016
- **Visiting Graduate Traineeship Program**
    - The Visiting Research Graduate Traineeship Program offered 12-month research traineeships for outstanding, qualified students from the life sciences at selected institutions in the United States.
- 2015
- **Grasz o Staz**
    - “Grasz o Staz” competition was a national, prestigious and highly competitive (1:25 success rate) scholarship program in Poland organized by PwC.



## TEACHING EXPERIENCE

- 2020
- **Online Python tutorials**
    - NGSeminars run over the summer due to cancellation of the NGSchool. I lead the following two 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/).

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/kzkdziarsa/r\\_intro](#)

2017

### ATAC-seq workshop

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

- Invited speaker
- Materials for the course can be available on [gitub.com/kzkdziarska/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

2021

|  
2020

### Visegrad Grant to organize [#NGSchool2020](#) - postponed until 2021

- A platform to share expertise in the field of Next Generation Sequencing data analysis and general bioinformatics.

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