# KASIA KEDZIERSKA

I am a 2nd year DPhil Candidate at the University of Oxford, studying the chromatin organisation in endometrial cancer. As a bioifnormatician, 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 Schoools in Bioinformatics. During last year edition - #NGSchool2019: Machine Learning for Biomedicine we recorded and published some of the lectures. This year, during #NGSchool2020: Statsitcal Learning in Genomics and 5 year anniversary conference we plan to record many more.
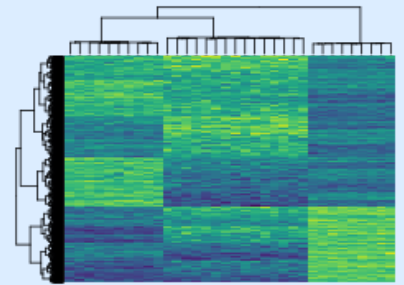
View this CV online with links at *kasia.codes/resume/*

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

- 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.
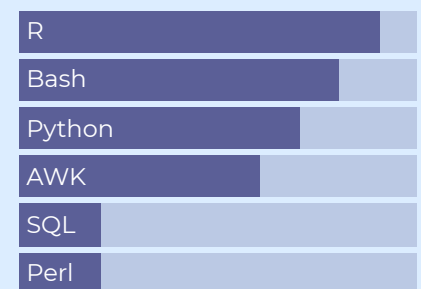
CONTACT

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🐦 kzkedzierska

🐙 github.com/kzkedzierska

🔗 kasia.codes

in kzkedzierska

LANGUAGE SKILLS

R	
Bash	
Python	
AWK	
SQL	
Perl	

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 2020-02-15.

📖 PUBLICATIONS

2019 ● **Dynamics of cardiomyocyte transcriptome and chromatin landscape demarcates key events of heart development**
Genome Research

· Regulation networks in heart developmnent 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

💬 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* Masther thesis defended at the Warsaw University of Technology; code for the analyses can be accessed github.com/kzkedzierska/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

2017 ● **ATAC-seq workshop**

#NGSchool2017: Single-cell Sequencing

· Invited speaker
· Materials for the course can be available on gitub

🎓 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 attenting 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