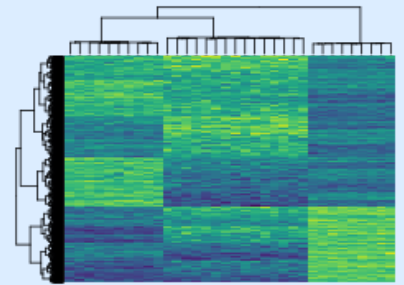


KASIA KEDZIERSKA

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/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

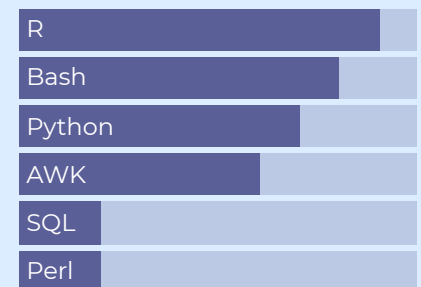
🐦 [kzkedzierska](#)

📄 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.



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

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/kzkeczerska/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 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

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

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](https://github.com)

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



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

2016

|
2015

President

Warsaw Society of Biotechnology

- Symbioza's aim is to integrate biotechnology community in Poland starting from the youngest generations, and promotion and popularization of biotechnology.