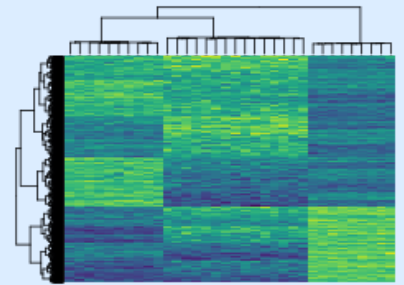


KASIA KEDZIERSKA

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](#).



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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

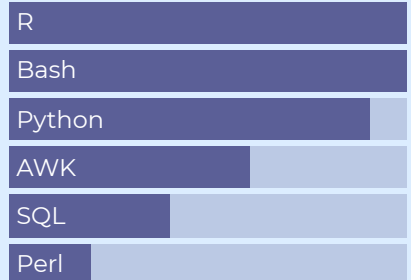
🐦 [kzkedzierska](#)

🔗 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 2020-11-17.





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



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



TEACHING EXPERIENCE

- 2020 • **Online tutorials: Python for Data Science and Introduction to Python**
NGSeminars  YouTube
• I led two Python tutorials: *Introduction to Python* kasia.codes/talk/intro_to_python/ and *Python for Data Science* kasia.codes/talk/py4ds/.

2020
|
2019

Introduction to Managing Code with Git

Wellcome Centre for Human Genetics

📍 Oxford, United Kingdom

- I led a 2-hour introduction to working with Git. Materials, including slides and exercises are available at kasia.codes/talk/into_to_git/.

2019

Unsupervised learning, Introduction to Python

[#NGSchool2019: Machine Learning for Biomedicine](#)

📍 Ostróda, Poland

- 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

📍 Oxford, United Kingdom

- 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 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

[Visegrad Fund](#)

- 32,190 EUR awarded towards organising #NGSchool2020 and #NGSymposium. Both events are postponed until 2021.



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