

KASIA KEDZIERSKA

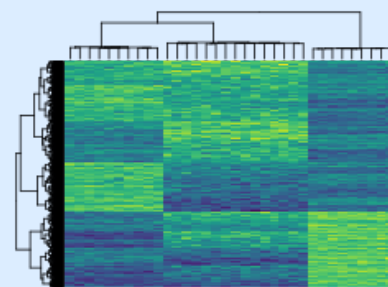
I am a 3rd year PhD student at the University of Oxford. I am a computational biologist, i.e., I use Data Science and Statistical Machine Learning to answer biological questions. Specifically, I study cancer of the uterus and chromatin organisation in disease progression.

RESEARCH EXPERIENCE

- 2022
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2018
- **DPhil Candidate**
[Wedge group](#) and [Church group](#) 📍 University of Oxford, UK
 - PhD project: *Functional and evolutionary characterisation of chromatin organisation in endometrial cancer*
- 2018
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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
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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
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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.

EDUCATION

- 2022
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2018
- **DPhil. Candidate, Genomic Medicine and Statistics**
[Nuffield Department of Medicine, Brasenose College](#) 📍 University of Oxford, UK
 - PhD fully funded by [Wellcome Trust Four-year PhD Studentships in Science](#)
- 2018
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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.
- 2015
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2011
- **B. Sc. Eng., Biotechnology**
Warsaw University of Technology 📍 Warsaw, Poland

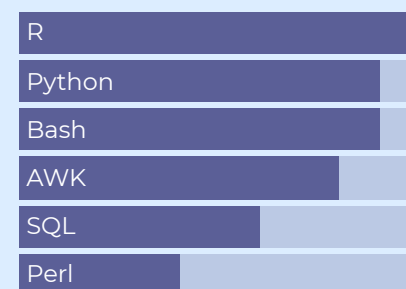


View this CV online on kasia.codes/cv/

CONTACT

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🌐 kasia.codes
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CODING 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 2021-02-23.



PUBLICATIONS

- 2020 • **The *MLH1* polymorphism rs1800734 and risk of endometrial cancer with microsatellite instability**
H. Russell, **K. Kedzierska**, D. D. Buchanan, R. Thomas, E. Tham, M. Mints, A. Keränen, G. G. Giles, M. C. Southey, R. L. Milne, I. Tomlinson, D. Church, A. B. Spurdle, T. A. O'Mara and A. Lewis
📍 Clinical Epigenetics
- 2020 • **Prognostic integrated image-based immune and molecular profiling in early-stage Endometrial Cancer**
N. Horeweg, M. de Bruyn, R. A. Nout, E. Stelloo, **K. Kedzierska**, A. León-Castillo, A. Plat, K. D. Mertz, M. Osse, I. M. Jürgenliemk-Schulz, L. C.H.W. Lutgens, J. J. Jobsen, E. M. van der Steen-Banasik, V. T. Smit, C. L. Creutzberg, T. Bosse, H. W. Nijman, V. H. Koelzer and D. N. Church
📍 Cancer Immunology Research
- 2019 • **Dynamics of cardiomyocyte transcriptome and chromatin landscape demarcates key events of heart development**
M. Pawlak, **K. Z. Kedzierska**, M. Migdal, K. A. Nahia, J. A. Ramilowski, L. Bugajski, K. Hashimoto, A. Marconi, K. Piwocka, P. Carninci and C. L. Winata
📍 Genome Research
- 2018 • **Genomic analysis of DNA repair genes and androgen signaling in prostate cancer**
K. Jividen, **K. Z. Kedzierska**, C.-S. Yang, K. Szlachta, A. Ratan and B. M. Paschal
📍 BMC Cancer
- 2018 • **SOnICS: PCR stutter noise correction in genome-scale microsatellites**
K. Z. Kedzierska, L. Gerber, D. Cagnazzi, M. Krützen, A. Ratan, L. Kistler
📍 Bioinformatics



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
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2018 • **Best Master Thesis in Bioinformatics**
• *Analysis of the mutational burden across gene sets in cancer* - Best Master Thesis defended in Bioinformatics in 2018 in Poland.

- 2017
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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 tutorials: Python for Data Science and Introduction to Python**  YouTube
NGSeminars
 - I led two Python tutorials: [Introduction to Python](https://kasia.codes/talk/intro_to_python/) [kasia.codes/talk/intro_to_python/](https://kasia.codes/talk/py4ds/) and [Python for Data Science](https://kasia.codes/talk/py4ds/) kasia.codes/talk/py4ds/.
- 2020
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2019 • **Introduction to Managing Code with Git**  Oxford, United Kingdom
Wellcome Centre for Human Genetics
 - I led a 2-hour introduction to working with Git. Materials, including slides and exercises are available at kasia.codes/talk/intro_to_git/.
- 2019 • **Unsupervised learning, Introduction to Python**  Ostróda, Poland
[#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**  Oxford, United Kingdom
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**  Jachranka, Poland
[#NGSchool2017: Single-cell Sequencing](#)
 - Invited speaker
 - Materials for the course can be available on [gitub.com/kzkedzierska/ATACseq_workshop](#)



ATTENDED WORKSHOPS, SUMMER SCHOOLS

- 2019 • **Machine Learning Summer School**
Imperial College London, University College London
 London, United Kingdom

I like teaching and deeply believe in Open Science. With [#NGSchool Society](#) which I'm the president of, I've been organising Summer Schools in Bioinformatics. During [#NGSchool2019: Machine Learning for Biomedicine](#) we recorded and published some of the lectures. Nowadays, because of the pandemic, we switched to organising virtual events - [NGSeminars series](#). We made all the content publicly available.

€ GRANTS

2021
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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.

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
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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