

Raphaela Pensch

CANCER GENOMICS PHD STUDENT

Uppsala, Sweden

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Education

PhD Cancer genomics

UPPSALA UNIVERSITY, DEPARTMENT OF MEDICAL BIOCHEMISTRY AND MICROBIOLOGY (IMBIM)

- **Supervisor:** Kerstin Lindblad-Toh
- **Co-supervisor:** Karin Forsberg Nilsson

Uppsala, Sweden

10/2021 - present

MSc Bioinformatics

UPPSALA UNIVERSITY

- **GPA:** 5.0/5.0
- **Thesis:** Non-coding constraint mutations impact the gene regulatory system in osteosarcoma
- **Supervisor:** Kerstin Lindblad-Toh

Uppsala, Sweden

09/2019 - 06/2021

BSc Food Science and Biotechnology

BOKU UNIVERSITY

- **Thesis:** Characterization of Extracellular Vesicles in Maize
- **Supervisor:** Eva Stöger

Vienna, Austria

09/2015 - 05/2019

ERASMUS+ exchange semester

NATIONAL UNIVERSITY OF IRELAND GALWAY

Galway, Ireland

01/2018 - 05/2018

Experience

Research Assistant

UPPSALA UNIVERSITY, IMBIM, LINDBLAD-TOH LAB

- Comparison of matched glioblastoma tumour, cell line and blood WGS data

Uppsala, Sweden

07/2021 - 09/2021

Master's degree project

UPPSALA UNIVERSITY, IMBIM, LINDBLAD-TOH LAB

- Investigation of non-coding constraint mutations and their impact on gene regulation in osteosarcoma
- Identification of novel osteosarcoma candidate genes

Uppsala, Sweden

11/2020 - 06/2021

Research Intern

UPPSALA UNIVERSITY, DEPARTMENT OF EVOLUTIONARY BIOLOGY, ELLEGREN LAB

- Design and implementation of a pipeline to identify and mask polymorphisms in large genomic datasets
- Estimation of the strength of natural selection between closely related *Ficedula* flycatcher species

Uppsala, Sweden

09/2020 - 10/2020

ERASMUS+ Research Intern

BOKU UNIVERSITY, DEPARTMENT OF BIOTECHNOLOGY, HIMMELBAUER LAB

- *De novo* assembly of a crop plant genome and improvement of an existing assembly from N50 2 Mbp to 2.5 Mbp

Vienna, Austria

07/2020 - 08/2020

Summer Intern

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY, CENTER FOR HEALTH AND BIORESOURCES

- Large-scale screening of soil microorganisms for biocontrol properties

Tulln, Austria

08/2018 - 10/2018

Bachelor's degree project

BOKU UNIVERSITY, DEPARTMENT OF APPLIED GENETICS AND CELL BIOLOGY, STOEGER LAB

- TEM, fluorescence and light microscopy to investigate and characterize extracellular vesicles in maize

Vienna, Austria

06/2018 - 07/2018

Honors & Awards

AWARDS

- 2024 **Best talk award by the scientific organizing committee**, International Conference of Canine and Feline Genetics and Genomics [Helsinki, Finland](#)

GRANTS

- 2022-2025 **Non-graduated researchers grant at the Faculty of Medicine**, Uppsala University [Uppsala, Sweden](#)
- 2023 **SciLifeLab EMBL exchange travel grant**, EMBL Cancer Genomics Conference [Heidelberg, Germany](#)
- 2023 **EMBL Corporate Partnership Programme travel grant**, EMBL Cancer Genomics Conference [Heidelberg, Germany](#)

CONFERENCE TALKS

- 2024 **Oral presentation**, International Conference of Canine and Feline Genetics and Genomics [Helsinki, Finland](#)
- 2024 **Oral presentation**, PhenoTarget symposium [Åre, Sweden](#)
- 2023 **Flash talk**, EMBL Cancer Genomics Conference [Heidelberg, Germany](#)
- 2022 **Oral presentation**, Brain Tumor Meeting [Berlin, Germany](#)

Extracurricular activities

Conference organizing committee

SWEDISH BIOINFORMATICS WORKSHOP 2024

- Organization of the largest bioinformatics conference in Sweden, hosting 200 on-site and 300 virtual participants

[Uppsala, Sweden](#)

01/2024 - 11/2024

Equal Opportunities Group

UPPSALA UNIVERSITY, IMBIM

- Role: PhD student representative

[Uppsala, Sweden](#)

01/2023 - present

PhD student association

UPPSALA UNIVERSITY, IMBIM

- Role: Chair (past roles: vice-chair, treasurer)
- Representation of PhD students at the department level
- Organization of networking events and career seminars for 70 PhD students and postdocs

[Uppsala, Sweden](#)

09/2022 - present

Teaching

Genome Analysis

UPPSALA UNIVERSITY, BIOLOGY EDUCATION CENTRE

- Program: Bioinformatics
- Guest lecture on cancer genomics

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05/2024

Medical Cell Biology

UPPSALA UNIVERSITY, IMBIM

- Program: Medicine
- Teaching assistant on spectrophotometry (wet lab)

[Uppsala, Sweden](#)

01/2024 - present

Comparative Genomics for Biomedicine

UPPSALA UNIVERSITY, IMBIM

- Program: MSc Medical Research
- Cancer genomics research presentation
- Teaching assistant on genome annotation, gene regulation and patterns of inheritance of Mendelian disorders

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09/2022 - present

Bioinformatics

UPPSALA UNIVERSITY, IMBIM

- Program: MSc Medical Research
- Teaching assistant on bash scripting, NGS data analysis and somatic variant calling
- Design and supervision of cancer genomics project

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01/2022 - present