

## NATALIE ANDERSSON - CURRICULUM VITAE

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### EDUCATION

- Medical school 330 hp, Lund university, Jan 2016 – June 2021

Also took several courses in mathematics and physics outside the original curriculum.

Finished my master thesis before schedule and started my PhD 1 st of September 2020.

- Medical radiation physics 300 hp, Lund university, Aug 2012 – Jan 2016

Also took several extra courses in mathematics and physics outside the original curriculum.

- Natural science program – High school, Katedralskolan Växjö, Aug 2009 – Jun 2012

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### WORK LIFE EXPERIENCE

- Residency – Clinical Pathology, 3/6 2024 – Now

•Postdoc – Catharina Hagerling lab, June 2024 – Now: Part time. Analyzing spatial transcriptomics data to map the immune landscape of brain metastases from lung cancer, breast cancer and melanoma patients.

- Medical intern, SUS Lund, 26/11 2021 – 28/11 2023

3 months in the ER

3 months in internal medicine, including rotations in the cardiac intensive care and neurology/stroke department.

3 months in surgery. Mainly had my rotations in the emergency surgery department.

1 week in the pediatric ER and 1 week in the pediatric oncology ward.

3 months of research time

3 months in the psychiatric ward and ER.

3 months of research time

6 months of General practice

- Junior doctor - Oncology ward 86, SUS Lund, 14/6-20/8 2021

Patients with breast cancer, lung cancer, head and neck tumors, skin tumors and brain tumors.

- PhD student – Cancer cell evolution unit – Department of clinical genetics – Lund university, 1/9 2020 – 23/5 2024.

Development of bioinformatical tools in order to analyze the genetic relationship between cancer cell populations. These tools will furthermore be used to investigate the relationship between primary tumor, local relapses, metastases, and treatment resistance in a cohort of children with the oncological diagnoses' neuroblastoma, Wilms tumor and rhabdomyosarcoma.

Skills: Bioinformatics, NGS pipeline creation, Phylogenetics, TDS analysis, WGS analysis, RNA-seq analysis, R, Python, Bash, Slurm Workload Manager, linux environment, SNP-array analysis, leadership, teamwork, funding applications.

- Project assistant – Cancer cell evolution unit – Department of clinical genetics – Lund university, 15/6–14/8 2020

- Project assistant – Cancer cell evolution unit – Department of clinical genetics – Lund university, 17/6–16/8 2019

- Assistant nurse at the oncology clinic, SUS Lund, 11/6-10/8 2018

- Teacher and examiner in anatomy in term 2 ("Movement and neuroscience") in Lund university medical school - 1/9 2017 – 14/6 2021

- Assistant nurse Radiation therapy, SUS Lund, 11/6–10/8 2017

- Assistant nurse Radiation therapy, SUS Lund, 12/6–4/8 2016

- Assistant nurse Radiation therapy, SUS Lund, May 2016

- Assistant nurse Radiation therapy, SUS (Skåne university hospital) Lund, 8/6–16/8 2015

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### AWARDS

- Best Young Researcher – Memorial Sloan Kettering Cancer Center – New York – June 2024

- Nominated for the Early Career Awards 2023 - European society for human genetics (ESHG) conference in Glasgow.

- Fellowship of excellence – 2023 – European society for human genetics conference - Glasgow

- Markussen's stipend for PhD studies - April 2023 – Awarded the Markussen stipend for my PhD studies at Lund University. Obtained 50 000 SEK and held a lecture about our research at a prize ceremony at Telleborg castle in Växjö.

- Magnus Blix prize 2019 – Given to one student at the medical faculty each year. To be eligible the student should have produced a scientific project during 2018, preferentially published. The project should be in undergraduate or graduate level and the student should have contributed the majority of it.

- Markussen's stipend - May 2019

- Prosten Anders Renner's stipend - Dec 2015

- Markussen's stipend- May 2015

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### MISCELLANEOUS

- Languages: Swedish (mother tongue), English (fluently, Cambridge Advanced English Diploma), French (very basic knowledge) and German (very basic knowledge).

- Programming skills: R, Python, bash, working in a linux/unix environment, MATLAB, LaTeX, IDL, Swift (written a couple of simpler apps) and C++ (basics).

- Reviewer experience: I've acted as a reviewer twice for the Springer Nature BMC journal "World Journal of Surgical Oncology".

- Application experience: Acquired travel scholarships from Lund University once, Fysiografiska sällskapet once and John och Augusta Perssons stiftelse once. Achieved research grants from Fysiografiska sällskapet.
- CARES – Feb 2022 – June 2023: Admitted to The Cancer Research South (CARES) School which is an extra curricular graduate research school for PhD students in cancer research. It is a collaboration between Lund University (LU) and the University of Gothenburg (UGOT) under the umbrella of Lund University Cancer Centre (LUCC) and Sahlgrenska Center for Cancer Research (SCCR). CARES is funded by the Swedish Cancer Society and hosted by LUCC. It includes both online courses, retreats and an exchange program, with the overarching goal to provide a unique possibility to broaden the PhD student's knowledge in all aspects of comprehensive translational cancer research.

Courses:

Epigenetics in cancer research.

Liquid biopsies

Medical bioinformatics

Translational cancer research

Clinical trials in cancer research

- Driving licence type B

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## SELECTED NON-PROFIC PROJECTS

- Student representative in the committee organizing the new 6 year-long medical school program at Lund University

- KIR-KON 2018 – Surgical conference for medical students

Was in the management team that started, planned and realized Sweden's first national surgical conference for medical students. We had 100 delegates from all universities in Sweden with a medical school. I acted responsible for sponsorships for the conference and established collaborations with Skånemejerier, vårdväskan, pencraft, whitelines among others. I also acted as instructor for chirurgia minor and bowel anastomosis during the conference. The planning started during the spring of 2017 and at the same time we also started the association "Svensk Kirurgisk Förening för Läkarstudenter (SKFL). Organization number: 802514-2731". The conference was held 6-8 April 2018 at CRC in Malmö. Thereafter it was held in Örebro in April 2019 and was to be held in Stockholm in April 2020 but was cancelled due to the pandemic. It resurfaced in 2022 in Gothenburg, 2023 in Umeå and 2024 in Gothenburg again.

- Instructor for the surgical committee in the medical union

Holding workshops in different surgical techniques to medical students with an interest in learning more about surgery.

- Chair - Medical union representative council – Apr 2017- Apr 2018

- The Swedish medical student association (Sveriges läkarförbund student) – Lund

Secretary, Feb 2017-Feb 2018

Chair in the national nominating committee Nov 2017-Nov 2018.

Vice president, Feb 2018-Feb 2019

President, Feb 2019-Feb 2020

Chair, Feb 2020-Feb 2021, Supporting the new board as a senior consulting member.

Vice president, Feb 2021-Feb 2022, Supporting the new board as a consulting senior member.

- Nallesjukhuset IFMSA, Jan-Jun 2016: A part of IFMSA that works towards giving children a positive view of medical care. We go out to kindergartens and talk about the human body together with the kids.

- Student safety representative – Physics department, Jan 2015- Jan 2016

- Chair - Career fair committee - Lund Science student union, Oct 2012-Oct 2013

- Vice chairman - Physics study council, Oct 2012- Oct 2013

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## LINKS

<https://scholar.google.com/citations?user=6KNE3o0AAAAJ&hl=en>

<https://www.linkedin.com/in/natalie-andersson-b30441146/>

<https://portal.research.lu.se/en/persons/natalie-andersson>