

Eric Viklund

McCormick School of Engineering, Northwestern University

Technological Institute, 2220 Campus Drive, Evanston, IL 60208, USA

Phone: 860-834-5008

Email: ericviklund2023@u.northwestern.edu

URL: <https://github.com/EricViklund>

Born: May 23, 1997—Stockholm, Sweden

Nationality: Swedish

Current and Past Position

Since 2019 *Graduate Student*, McCormick School of Engineering, Northwestern University
2017-2019 *Manufacturing Engineer*, GKN Aerospace, Newington, Connecticut, USA

Research Experience

2016-2019 Undergraduate Research Assistant – High Vacuum and Cryogenic Equipment
2019-2024 Graduate Researcher – SRF Technology, Thin Film Science, Surface Characterization

Education

2019 BS in Physics, *Summa Cum Laude*, University of Connecticut
Exp. 2024 PhD in Materials Science, Northwestern University

Grants, Honors & Awards

2022 Accelerator PhD Program, Fermi National Accelerator Laboratory
2023 IPAC'23 Student Grant

Service to the profession

2023 Peer Reviewer for Physical Review Accelerators and Beams
2017-2019 University of Connecticut, Student Tutor
2022 Northwestern University, Teaching Assistant

Talks & Presentations

2021, 2023 *Student Poster Presentation*, International Conference on Radio-Frequency Superconductivity (SRF)
2023 *Student Poster Presentation*, International Particle Accelerator Conference (IPAC)
2022 *Oral and Poster Presentations*, Applied Superconductivity Conference (ASC)
2022 *Invited Speaker*, TESLA Technology Collaboration (TTC)
2021 *Invited Speaker*, Cryogenic Engineering Conference/International Cryogenic Materials conference (CEC/ICMC)

Publications

- [1] E. Viklund, D. N. Seidman, D. Burk, and S. Posen, “Improving nb₃sn cavity performance using centrifugal barrel polishing,” *Superconductor Science and Technology*, vol. 37, no. 2, p. 025 009, 2024.
- [2] E. Viklund, J. Lee, D. Seidman, and S. Posen, “Three-dimensional reconstruction of nb₃sn films by focused ion beam cross sectional microscopy,” *IEEE Transactions on Applied Superconductivity*, vol. 33, no. 5, pp. 1–4, 2023.
- [3] V. Chouhan, T. Ring, E. Viklund, and G. Wu, “Electropolishing Study on Nitrogen-Doped Niobium Surface,” in *Proc. 21th Int. Conf. RF Supercond. (SRF’23)*, (Grand Rapids, MI, USA), ser. International Conference on RF Superconductivity, JACoW Publishing, Geneva, Switzerland, Sep. 2023, WEIXA05, pp. 641–645, ISBN: 978-3-95450-234-9. DOI: [10.18429/JACoW-SRF2023-WEIXA05](https://doi.org/10.18429/JACoW-SRF2023-WEIXA05). [Online]. Available: <https://jacow.org/srf2023/papers/weixa05.pdf>.
- [4] E. Viklund, L. Grassellino, S. Posen, T. Ring, and D. Seidman, “Studies on the Fundamental Mechanisms of Niobium Electropolishing,” in *Proc. SRF’21*, (East Lansing, MI, USA), ser. International Conference on RF Superconductivity, JACoW Publishing, Geneva, Switzerland, Oct. 2022, SUPCAV016, pp. 50–52, ISBN: 978-3-95450-233-2. DOI: [10.18429/JACoW-SRF2021-SUPCAV016](https://doi.org/10.18429/JACoW-SRF2021-SUPCAV016). [Online]. Available: <https://jacow.org/srf2021/papers/supcav016.pdf>.

Last updated: March 6, 2024 • <https://github.com/EricViklund/CV>