



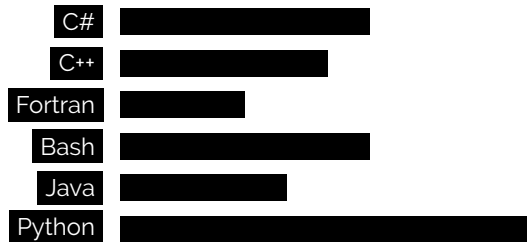
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Computational Physicist Game Design Student

WHO AM I?

A 27 year old computational physicist who recently defended his doctoral dissertation regarding radiation damage in high entropy alloys in the context of future nuclear reactor materials. Currently studying game design and production at Aalto University.



EXPERIENCE

- 2021 – **Research Assistant** Aalto University
Working on research experience projects (REPs) alongside my studies in Game Design and Production. The first REP during autumn involved a short literature review and independent experimentation regarding world data utilization in virtual landscape generation. For the current REP I have moved to graphics programming, a new but exciting field to me.
Graphics / Unity / Real World Data / Python
- 2019 – 2021 **Doctoral Researcher** University of Helsinki
Computational research of irradiation damage in high entropy alloys for fusion reactor applications. The work included running computationally intensive molecular dynamics irradiation simulations, analyzing irradiation damage in simulated samples, publishing results via peer-reviewed articles in journals related to the field, and teaching.
Molecular Dynamics / OVITO / Linux / Python
- 2015 – 2019 **Research Assistant** University of Helsinki
Computational research of irradiation damage in high entropy alloys for fusion reactor applications.
Molecular Dynamics / OVITO / Linux / Python
- 2014 **Museum Guard** Rilaxmonumentets traditionsförening r.f.
Guarded and gave guided tours of an exhibit honouring the 300th anniversary of a naval battle fought in the Gulf of Finland.
Guarding / Guiding / Customer service

EDUCATION

- 2021 – **Master's Degree** Aalto University
Master's Programme in Computer, Communication and Information Sciences
Major: Game Design and Production
- 2019 – 2022 **Doctoral Degree** University of Helsinki
Doctoral Programme in Materials Research and Nanoscience
- 2017 – 2019 **Master's Degree** University of Helsinki
Master's Programme in Materials Research
Line: Computational Material Physics

2014 – 2017	Bachelor's Degree Degree Programme in Physical Sciences Major: Theoretical Physics	University of Helsinki
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TEACHING

2017 – 2019	Teaching Assistant Mathematics for Physicists I Basics of vector calculus, power series, differential calculus, integral calculus	University of Helsinki
2017 – 2019	Teaching Assistant Mathematics for Physicists II Complex numbers, ordinary differential equations, vector calculus	University of Helsinki
2018 – 2021	Teaching Assistant Mathematics for Physicists III Linear algebra, vector calculus	University of Helsinki

INTERNATIONAL EXPERIENCE

2019	ICFRM 2019 International conference on fusion reactor materials Poster presentation	San Diego
2014 – 2015	Lancaster University First year BSc physics studies.	Lancaster

PUBLICATIONS

- [1] Levo, E. (2022). Radiation Damage in High Entropy Alloys. University of Helsinki.
- [2] Levo, E., Granberg, F., Utt, D., Albe, K., Nordlund, K., Djurabekova, F. (2019). Radiation stability of nanocrystalline single-phase multicomponent alloys. Journal of Materials Research.
- [3] Levo, E., Granberg, F., Fridlund, C., Nordlund, K., Djurabekova, F. (2017). Radiation damage buildup and dislocation evolution in Ni and equiatomic multicomponent Ni-based alloys. Journal of Nuclear Materials, 490, 323-332.
- [4] Granberg, F., Djurabekova, F., Levo, E., Nordlund, K. (2017). Damage buildup and edge dislocation mobility in equiatomic multicomponent alloys. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 393, 114-117.

AWARDS

2019	Runner-up for Best Scientific Poster	De Finlandssvenska Fysik- och Kemidagarna
2017	Best Scientific Poster	De Finlandssvenska Fysik- och Kemidagarna

REFERENCES

Prof. Kai Nordlund Supervising professor of doctoral studies Email: kai.nordlund@helsinki.fi Mobile: +358-40-5562806	University of Helsinki
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LANGUAGES

Swedish - native
Finnish - native
English - excellent

HOBBIES

If not working, or studying, one can most certainly find me at the gym, playing games, cooking, writing my book, or planning my future winery.

MILITARY SERVICE

Served as a conscript in the Finnish Defence Forces for a year. Underwent non-commissioned officer training and gained valuable leadership skills.