

CURRICULUM VITAE

AREN SIEKMEIER
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EDUCATION

2021 M.S.	Pohang University of Science and Technology – Republic of Korea Computer Science and Engineering Professor Jong-Hyeok Lee thesis: <i>Tag-Assisted Neural Machine Translation</i>
2016 B.S. B.A. <i>minor</i>	University of Minnesota Twin Cities – USA Mathematics Computer Science Physics

RESEARCH AND WORK EXPERIENCE

June 2022 - present	DeltaX 주식회사 AI Researcher / 연구원, Seoul –ML R&D for contract projects, e.g. sequence models (BERT) for cybersecurity
Jan - May 2022	Coupang, Inc. Senior Ranking Engineer, Search & Discovery, Seoul –query understanding (NLP) for query and product ranking signals
Sep 2019 - Aug 2021	Pohang University of Science and Technology Knowledge and Language Engineering Lab, Professor Jong-Hyeok Lee –segmentation and factored neural machine translation techniques
Jan 2018 - July 2019	iPrice Group – Kuala Lumpur, Malaysia Data scientist –data pipelines and features from user data
Sep 2016 - July 2017	Pohang University of Science and Technology Machine Learning Group, Professor Seungjin Choi –machine learning algorithms in Python and TensorFlow
Jan - Aug 2016	Medtronic – Minnesota, USA Technical Aide
Sep 2014 - Nov 2015	Pohang University of Science and Technology Computational Materials Design Lab, Professor Ji Hoon Shim
June - July 2014	Max Planck Institute for the Physics of Complex Systems – Dresden Finite Systems Group, Professor Jan-Michael Rost
Jun - Dec 2013	Pohang University of Science and Technology Max Planck Center for Attosecond Science, Attosecond Theory Junior Research Group, Professor Norio Takemoto
Sep 2012 - May 2013	University of Minnesota School of Physics and Astronomy Teaching Assistant
May - Aug 2012	Graduate School of Integration Sciences, Chiba University – Japan Ochiai-Aoki Lab, Professor Nobuyuki Aoki, supported by NanoJapan and NSF –carbon nanotube thin-film transistor fabrication and characterisation –Honorable Mention at the 2012 Rice Quantum Institute
May 2011 - Dec 2012	University of Minnesota Department of Electrical Engineering Optical Systems Group, Professor James Leger
Summer 2011	Mathnasium of Woodbury – Minnesota, USA Math Tutor

SKILLS

- Machine learning, machine translation, and natural language processing, primarily with Python and PyTorch, with exposure to languages including Java, R, Matlab, and Fortran, and a particular interest in Scala, Haskell, Golang, and others.
- Mastery of Linux systems, `bash`, `git`, \LaTeX typesetting.
- Experience with NoSQL (Elasticsearch), containerized services (Docker), Spark, and cloud services (AWS, Azure, GCP).

OTHER ACTIVITIES

- **Ultimate frisbee** – 2019 to present – treasurer of the Korean Ultimate Players Association
- Language study – intermediate Korean and Spanish proficiency
- **FIRST mentor** – 2011 to 2016 – teaching kids engineering concepts for a high-school competition: mechanical, electrical, and software systems – design, drafting, and fabrication

AWARDS AND HONORS

National Merit Scholar

Diversity Study Abroad Scholar

Professor Hans H. Dalaker Scholar

Presidential Scholar

UMN Gold Scholar

UMN CSE Dean's List 2010-2011