

Dietrich Daroch

"What we know is largely determined by what we ask and how we ask"
Kendall & Carterette

Education

- 2015–2017 **Computer Science M.Sc..**
- At Pontificia Universidad Católica de Chile
 - Unfinished degree
- 2009–2017 **Computer Science Major.**
- At Pontificia Universidad Católica de Chile
 - Engineering and CS Major
- 2002–2008 **PENTA-UC.**
- At Pontificia Universidad Católica de Chile
 - University program for talented children.

Experience

Work

- 2017–2024 **Google Assistant.**
- SWE - Serving Infrastructure
- Designed and implemented new data ingestion infrastructure to scale with dataset growth and new data freshness demands.
 - Investigated latency and performance issues leading to improvements on critical user flows.
 - Managed infrastructure and ensured capacity, availability, and locality of our global deployment.
- Q1 2014 **Foris.**
- Internship with the optimization team.
- Benchmarking and tailoring optimization algorithm for major client.

Vocational

- 2015–2017 **Master Thesis**, J. BAIER, J. REUTTER.
- Research on Heuristic Search.
 - Path queries on distributed graph databases.
- 2013–2014 **Guided Project**, JORGE BAIER.
- Research on Real-time Heuristic Search.
 - Dynamic weighting and replanning.

Awards

- 2020 **Silver Perfy award**, *Google*.
User latency improvements
- 2012 **AI Search Competition Winner**, *AI Class*.
Fastest Heuristic Search implementation on class of 80
- 2010 **National 3rd place**, *ICPC*.
ACM ICPC Latin America Regionals
- 2009 **Global top-25 projects**, *Stanford*.
Our Recycling Arcade was one of the 25 winners of Stanford's Global Innovation Tournament.

Publications

- 2017 Evaluating navigational RDF queries over the Web.
- Presented on ACM Hypertext 2017
 - Defined a way to describe and execute queries over distributed RDF databases.
- 2016 Property Paths over Linked Data: Can it be done and how to start?
- Presented evidence that querying multiple RDF datasets was possible.

Interests

- AI and Logic
- Distributed Systems
- Music
- Video Games
- Cycling and Snowboarding