

# Dietrich Daroch

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

## Experience

### Work

- Jan-2017–  
Mar-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 3<sup>rd</sup> 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.

## Education

- 2015–2017 **Computer Science M.Sc..**
- At Pontificia Universidad Católica de Chile
  - Complete coursework, but 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.

## 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