

# 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–Present **Google Assistant.**
- SWE - Serving Infrastructure
- Designed and Implemented Data Pipeline and Service to scale indexing scripts.
  - Investigated latency issues and delivered improvements on critical user flows.
  - Managed service deployment and ensured capacity and availability 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.

## 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