

# IACOPO GARIZIO VILLENA

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## EDUCATION

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- University of Washington** *Sep 2019 - Present*  
Master of Science in Data Science  
Current GPA: 3.99
- Pontificia Universidad Católica de Chile** *Mar 2012 - Jul 2017*  
Bachelor of Arts in Economics  
Thesis: "Ending student discrimination in school admissions: Comparing matching algorithms."
- Pontificia Universidad Católica de Chile** *Mar 2012 - Jul 2017*  
Academic certificate in Computer Science and Informatics

## WORK EXPERIENCE

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- Google LLC** *Jun 2020 - Sep 2020*  
**Intern at Geodata Insights and Analytics (Google Maps)**
- VTR Globalcom - Part of Liberty Global** *Aug 2019 - Sep 2019*  
**Freelance developer**  
- Developed a web scraper that gathered public information about the positioning of competitors.
- Confuturo S.A.** *Jul 2018 - Sep 2019*  
**Freelance developer**  
- Developed a software that calculates the monetary reserve the company should have, by simulating life annuities for every customer (270,000 simulations). The developed tool is 13x faster than previous software (achieved through parallel processing).  
- Created a more manageable codebase. The new code represents only 28 % of the previous software. The new tool is more detailed and accurate. Has a summed error on all customers of  $\pm 0.39$  USD).
- VTR Globalcom - Part of Liberty Global** *Nov 2017 - Jul 2019*  
**Full-time Pricing and portfolio analyst**  
- Determined optimal prices and fees based on statistical models.  
- Used models of spatial statistics to predict competitor's positioning.  
- Generated multiple data visualizations to guide senior management's decisions.  
- Created predictive models for client leakage.  
- Developed multiple web scrapers.
- UC Propone - Pontificia Universidad Católica de Chile** *Jul 2017 - Sep 2017*  
**Freelance developer**  
- Developed a software that simulates kidney transplant waiting lists, in order to propose a more efficient and fair rule of allocation, alongside Javier Dominguez, M.D, former president of the Chilean Transplant Corporation, and the economist, Rodrigo Harrison.
- VTR Globalcom - Part of Liberty Global** *Jul 2017 - Aug 2017*  
**Freelance developer**  
- Developed a web scraper that gathered strategic information used company-wide.
- Ingemax Ltda.** *Summer 2016*  
**Intern**  
- Developed parts of an invoice software.  
- Developed web scrapers for marketing usage.
- Ingemax Ltda.** *Summer 2013*  
**Intern**  
- Developed *Quantrix* plugins for Falabella (biggest retailer in the country).  
- Created minimum viable products in *Arduino*.

## PUBLICATIONS

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Garizio, I. (2019). Py-school-match: Matching algorithms to assign students to schools. *The Journal of Open Source Software*, 4(34), 1111.

DOI: <https://doi.org/10.21105/joss.01111>

## ACADEMIC ACTIVITIES

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- TEACHING ASSISTANT:
- Advanced Programming (School of Engineering)
  - Econometrics I (Department of Economics)
  - Macroeconomics I (professor was the president of the Central Bank)
  - Macroeconomics II (professor was the president of the Central Bank)
  - UC Propone (apart from developing the software helped students use it)

## SKILLS

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LANGUAGES: Python, SQL, Java, Matlab, VBA, C (intermediate),  $\LaTeX$ .

SOFTWARE: Git.

## AWARDS

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- 2019 “BecasChile Áreas Prioritarias”: Full-tuition merit-based scholarship for master’s degrees.
- Youngest scholarship recipient.
  - Ranked 16th among 207 candidates.
- 2017 Thesis approved with distinction (highest grade).
- 2017 Graduated 23rd out of 273 students.

## VOLUNTEER ACTIVITIES

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- 2014-2016 **Member of the “National Youth Coordination of the Vineyard Churches in Chile”.**  
Developed web-based and stand alone event accreditation software.  
Helped coordinate nationwide events.