Juan Elenter

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EDUCATION

University of Pennsylvania — **Philadelphia, United States**

- Ph.D. candidate. *School of Engineering and Applied Science.* — *Fall 2021 - present*
  Main Interests: Machine Learning, Optimization, Signal Processing.

- Master of Arts in Statistics and Data Science. *The Wharton School.*

Universidad de la República — **Montevideo, Uruguay**

- Bsc. Electrical Engineering. *School of Engineering.* — *2016 - 2020*
  Dissertation: Genome Enabled Prediction of Complex Traits.

Selected Papers

- Near-Optimal Solutions of Constrained Learning Problems. **Elenter**, Chamon, Ribeiro. *(Under review @ ICLR)*
- Primal-Dual Continual Learning. ***Elenter, NaderiAlizadeh, Javidi, Ribeiro.*** *(Under review @ ICLR)*
- Neural Networks with quantization constraints. Hounie*, **Elenter***, Ribeiro. *(Presented @ IEEE ICASSP)*
- A Lagrangian Duality Approach to Active Learning. **Elenter**, NaderiAlizadeh, Ribeiro. *(Presented @ NeurIPS)*

EXPERIENCE

Research

Flatiron Institute, Simons Foundation — **New York, United States**
Summer intern at the Center for Computational Mathematics — *Summer 2022*
- Worked on stochastic optimization methods that yield near interpolators with Robert Gower.

Stanford — **Remote**
Visiting student at KundajeLab — *Spring 2021*
- Worked on motif discovery through chromatin accessibility prediction under the supervision of Prof. Anshul Kundaje.

CERN — **Meyrin, Switzerland**
Summer Student at the Compact Muon Solenoid Experiment — *Summer 2020*
- Interned at the data visualization team of the CMS experiment under the supervision of Dr. Kati Lassila Perini.

Industry

ProteanTecs — **Haifa, Israel**
Signal Processing Intern — *Summer 2019*
- Built models to predict IDDQ spikes in integrated circuits by using voltage and cycle time measurements at various locations in the chip. Improved accuracy of previous model by 6%.

IBM — **Montevideo, Uruguay**
Full Stack Developer — *2018-2019*
- Built IBM Cloud interface to monitor current sensors via the SNMP protocol and Node Red.

SKILLS

- Programming Languages: Python (preferred), C++, Matlab, C, SQL, Pascal
- ML frameworks: PyTorch (preferred), Tensorflow, Jax, Sklearn
- Languages: Fluent in *English*, *Spanish* and *French*.

OTHER

- Former player of the Uruguayan Waterpolo National Team
- NASA 2019 Space App **Hackaton**: Global Finalist
- **Teleton Electric Wheelchair**: Designed and built an electric wheelchair for 3 to 5 year old children with reduced leg mobility. Worked both on hardware and control software.
- Exchange student at INSA Lyon, France, in 2018.