

Juan Elenter

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EDUCATION

University of Pennsylvania <i>PhD candidate, ESE department.</i> Main interests: Optimization, Signal Processing, Machine Learning.	Philadelphia, United States <i>Fall 2021 - present</i>
Universidad de la República <i>Bsc. Electrical Engineering, Signal Processing.</i>	Montevideo, Uruguay <i>2016 - 2020</i>

EXPERIENCE

Research.....

Flatiron Institute, Simons Foundation <i>Summer intern at the Center for Computational Mathematics</i> ◦ Worked on stochastic optimization methods that yield near interpolators with Robert Gower.	New York, USA <i>Summer 2022</i>
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Stanford <i>Visiting student at KundajeLab</i> ◦ Worked on motif discovery through chromatin accessibility prediction under the supervision of Prof. Anshul Kundaje. Designed and trained BPNet neural networks to find cell-type specific motifs that potentially play a role in gene expression and regulation.	Remote <i>Spring 2021</i>
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CERN <i>Summer intern at the Compact Muon Solenoid Experiment</i> ◦ Interned at the data visualization team of the CMS experiment under the supervision of Dr. Kati Lassila Perini.	Geneva, Switzerland <i>Summer 2020</i>
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Papers.....

- A Lagrangian Duality Approach to Active Learning.
Elenter, NaderiAlizadeh, Ribeiro. (NeurIPS 2022)

Industry.....

ProteanTecs <i>Signal Processing Intern</i> ◦ 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%.	Haifa, Israel <i>Summer 2019</i>
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IBM <i>Full Stack Developer</i> ◦ IoT Built IBM Cloud interface to monitor current sensors via the SNMP protocol and Node Red. ◦ Forest Fire Detection Worked on CNNs to detect forest fires with low quality, long distance security cameras using IBM Watson.	Montevideo, Uruguay <i>2018-2019</i>
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SKILLS

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

OTHER

- 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.
- Former player of the Uruguayan Waterpolo National Team