

Waren Long

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French & American citizenship

Experience

- **source{d}** **Madrid, Spain**
Machine Learning Software Engineer *2017 to present – 2 years 7 months*
 - Mine and build massive datasets from software repositories.
 - Design and train ML models applied to source code using a multi GPU cluster.
 - Develop solutions for code completion, program repair, clone detection, identity matching, developer similarity.
 - Publish research papers and talk in top-tier Data Mining and ML conferences.
 - Conduct product demonstrations and integrate source{d} solutions into customers' environment.
 - Love and contribute to Open Source.
- **CEDRIC Lab** **Paris, France**
Research Software Engineer Intern *2017 – 6 months*
 - Implement a GRASP heuristic in Python to solve the Dial-A-Ride taxi-sharing Problem with Money as an incentive.
 - Evaluation on public datasets of GPS taxi traces.
- **UCLA Department of Mathematics** **Los Angeles, USA**
Visiting Researcher *2016 – 4 months*
 - Design and implement in Matlab a macroscopic model to analyze traffic congestion using fluid mechanics equations.

Education

- **Conservatoire National des Arts et Métiers** **Paris, France**
MPRO Research Master's Degree in Computing Science, Operational Research *2016 – 2017*
- **ENSTA ParisTech** **Paris, France**
Master of Science in Engineering, Optimization and Statistics *2014 – 2017*
- **Pasteur College** **Neuilly-sur-Seine, France**
Preparatory classes PCSI/PC, Physics and Chemistry* *2011 – 2014*

Technical skills

- **Languages:** English, French, Spanish.
- **Programming:** Python3, Go, C++, CUDA, SQL, Matlab, Julia, AMPL, \LaTeX .
- **Front & BI tools:** HTML5, CSS3, JavaScript, React, Superset, Metabase, Tableau.
- **Models & Algorithms:** bag-of-words, n-grams, GBDT, bayesian, clustering, embeddings, neural nets, topic modeling, linear optimization, shortest path, PageRank, community detection.
- **ML frameworks:** TensorFlow, Keras, PyTorch, scikit-learn, DGL, NLTK, DyNet.
- **Technologies:** Linux, Git, Docker, Kubernetes, Apache SparkTM.
- **Database:** MySQL, PostgreSQL, Cassandra.

Publications

Vadim Markovtsev and **Long Waren**. **Public Git Archive: A Big Code Dataset for All**. In *Proceedings of the 15th International Conference on Mining Software Repositories*, MSR, New York, NY, USA, 2018. ACM.

Vadim Markovtsev, **Long Waren**, Egor Bulychiev, Romain Keramitas, Konstantin Slavnov, and Gabor Markowski. **Splitting source code identifiers using Bidirectional LSTM Recurrent Neural Network**. In *Proceedings of the 1st International FLOC Workshop on Machine Learning for Programming*, MLP, 2018.

Vadim Markovtsev, **Long Waren**, Hugo Mougard, Konstantin Slavnov, and Egor Bulychiev. **STYLE-ANALYZER: Fixing Code Style Inconsistencies with Interpretable Unsupervised Algorithms**. In *Proceedings of the 16th International Conference on Mining Software Repositories*, MSR, Piscataway, NJ, USA, 2019. IEEE Press.

Long Waren, Vadim Markovtsev, Hugo Mougard, Egor Bulychiev, and Jan Hula. **Identifying collaborators in large codebases**. In *Proceedings of the 1st International ICSE Workshop on Machine Learning for Software Engineering*, ML4SE, 2019.

Talks

- Machine Learning on Source Code : from n-grams to GGNNs [[slides](#)]
ML Meetup 2019 - Nantes, France
- style-analyzer: Fixing Code Style Inconsistencies with Interpretable Unsupervised Algorithms [[slides](#)]
MSR 2019 - Montreal, Canada
- Empower developers with ML assisted code review [[slides](#)]
AI Meetup 2019 - Paris, France
- How AI can help programmers write better code? [[slides](#)]
AI & Society Meetup 2019 - Paris, France
- Splitting source code identifiers using Bidirectional LSTM [[slides](#)]
MLP 2018 - Oxford, UK
- Public Git Archive: A Big Code Dataset for All [[slides](#)]
MSR 2018 - Gothenburg, Sweden
- Analyzing GitHub, how developers change programming languages over time [[slides](#)]
PyDays 2018 - Vienna, Austria

Interests and Hobbies

- **Sport:**
 - Rugby player at [Club de Rugby Liceo Francés](#)
 - Golf (hcp. 7.3)
 - Scuba diving (N2 FFESSM, Advanced Open Water Padi)
- **Adventure:** Hiking and kayaking (Teide, Salcantay, Licancabur, Colorado river, Everglades).