

Nikolay Pavlovich Laptev

CONTACT INFORMATION

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EDUCATION



Stanford University, Stanford, CA USA

- Postdoc, Electrical Engineering, December 2018.
- Research topic: Neural network interpretation.
- Advisor: Ram Rajagopal.



University of California Los Angeles, Los Angeles, CA USA

- Ph.D., Computer Science, Distributed Systems, December 2012.
- M.S., Computer science, Machine Learning, June 2008
- Advisor: Carlo Zaniolo, Awards: NSF Scholar, GSR Scholarship.



University of California Santa Barbara, Santa Barbara, CA USA

- M.A., Economics with Emphasis on business, June 2007.
- B.S., Computer Science, June 2006.
- Regents Scholarship and Dean's Honor List.

PROFESSIONAL EXPERIENCE

Facebook, Menlo Park, CA, USA
Engineering Lead

Oct 2017 - Present



- Engineering Lead and founder of real-time machine learning.

Uber, San Francisco, CA, USA
Science Lead

Sep 2016 - Oct 2017



U B E R

- Tech lead for applied machine learning focusing on deep learning research and applications to time-series forecasting and anomaly detection.

Yahoo! Labs, Sunnyvale, CA, USA
Sr. Research Scientist

Jan 2013 - Sep 2016



- Developed large scale models for ranking, recommendation, classification and anomaly detection used in production by millions of people.

HRL Labs, Internship, Malibu, CA, USA
Research Scientist

Jun 2012 - Sep 2012



- Developed prediction models together with an approximation for these models that work over 'Big Data' on Hadoop.

Google, Internship, Irvine, CA, USA
Software Engineer

Jun 2011 - Sep 2011



- Developed fault-tolerance and anomaly detection techniques for Google Real-Time Analytics.

Teradata, Internship, Los Angeles, CA, USA
Software Engineer

Jun 2010 - Sep 2010



- Developed a compiler that compiles Teradata UDFs into Hadoop MapReduce jobs.

Citrix Systems, Internship, Santa Barbara, CA, USA
Software Engineer

2008 and 2009 Summers



- Developed a distributed load-testing framework to test company's backend infrastructure for GoToMyPC products.

Commission Junction, Internship, Santa Barbara, CA, USA
Software Engineer

2005 and 2006 Summers



- Developed a framework for automated Customer Acceptance Tests.

PUBLICATIONS	<p>Nikolay Laptev, Jason Yosinski, Li Erran Li, Slawek Smyl, Time-series Extreme Event Forecasting with Neural Networks at Uber, ICML 2017</p> <p>J Balasubramanian, A Soni, Y Mehdad, N Laptev, Online Article Ranking as a Constrained, Dynamic, Multi-Objective Optimization Problem, FLAIRS 2017</p> <p>Xiaokui Shu, Nikolay Laptev, Danfeng Yao, DECT: Distributed Evolving Context Tree for Understanding User Behavior Pattern Evolution, EDBT 2016 (Full Paper)</p> <p>Xiaokui Shu, Nikolay Laptev, Danfeng Yao, DECT: Distributed Evolving Context Tree for Understanding User Behavior Pattern Evolution, AAAI 2016 (DEMO)</p> <p>Rob Hyndman, Nikolay Laptev, Earo Wang, Large-Scale Unusual Time Series Detection, ICDM 2015.</p> <p>George D Montanez, Saeed Amizadeh, Nikolay Laptev, Inertial Hidden Markov Models: Modeling Change in Multivariate Time Series, AAAI 2015</p> <p>Nikolay Laptev, Saeed Amizadeh, Ian Flint, Generic and Scalable Framework for Automated Time-series Anomaly Detection, KDD 2015</p> <p>Ilaria Bordino, Nicolas Kourtellis, Nikolay Laptev, Youssef Billawala, Stock Trade Volume Prediction with Yahoo Finance User Browsing Behavior, ICDE 2014.</p> <p>Nikolay Laptev, Kai Zeng, Carlo Zaniolo, Very Fast Estimation for Result and Accuracy of Big Data Analytics: the EARL System, ICDE 2013.</p> <p>Nikolay Laptev, Tsai-Ching Lu, Carlo Zaniolo, BOOT-TS: A Scalable Bootstrap for Massive Time-Series Data, NIPS 2012.</p> <p>300+ citations. See more on Google Scholar.</p>
SELECTED TALKS	<ul style="list-style-type: none"> • ISF 2017, Cairns, Australia on Time-series modeling with Neural Network at Uber. • Stanford 2017, Palo Alto, on Time-series special events modeling with Neural Network at Uber. • FLAIRS 2017, Online Article Ranking as a Constrained, Dynamic, Multi-Objective Optimization Problem • EDBT 2016, Bordeaux, France on DECT: Distributed Evolving Context Tree for Understanding User Behavior Pattern Evolution (talk). • AAAI 2016, Phoenix, Arizona on DECT: Distributed Evolving Context Tree for Understanding User Behavior Pattern Evolution (demo). • Georgia Tech 2015 & #lspe meetup, on Generic and Scalable Framework for Automated Time-series Anomaly Detection. • ICDM 2015, Atlantic City, US on Large-Scale Unusual Time Series Detection. • KDD 2015, Sydney, Australia on Generic and Scalable Framework for Automated Time-series Anomaly Detection. • ICDE 2013, Brisbane, Australia on Very Fast Estimation for Result and Accuracy of Big Data Analytics: the EARL System. • NIPS 2012, Lake Tahoe, Nevada, USA on A Scalable Bootstrap for Massive Time-Series Data. • VLDB 2012, Istanbul, Turkey on Early Accurate Results for Advanced Analytics on MapReduce. • ICDE 2012, Washington DC, USA on Optimization of Massive Pattern Queries by Dynamic Configuration Morphing.
OTHER	<p>Hobbies: Basketball league, open source (github: nlaptev), marathon runner.</p> <p>Languages: English, Russian, Spanish.</p> <p>Personality: A lot of enthusiasm and energy for solving difficult problems.</p>
REFERENCES	<p>Mayur Deshpande, Google, Staff Software Engineer, nep@google.com</p> <p>Youssef Billawala, Apple, Science Manager, ybillawala@gmail.com</p> <p>Fran Bell, Uber, Sr. Manager, fran@uber.com</p> <p>Carlo Zaniolo, UCLA, Professor, zaniolo@cs.ucla.edu</p>