

Nikolay Pavlovich Laptev

CONTACT INFORMATION

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EDUCATION



University of California Los Angeles, Los Angeles, CA USA

- Ph.D., Computer Science, December 2012. Dissertation: Support for Scalable Analytics over Databases and Data-Streams.
- M.S., Computer science, 2008. Thesis: Sporadic and Duplicate Cell Removal when Clustering Data Streams.
- 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

Uber, San Francisco, CA, USA

Sr. Applied Scientist [Tech Lead]

Sep 2016 - Present



U B E R

- Tech lead for applied machine learning focusing on deep learning and anomaly detection.

Yahoo! Labs, Sunnyvale, CA, USA

Sr. Applied Scientist

Jan 2013 - Sep 2016



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

HRL Labs, Internship, Malibu, CA, USA

Applied Scientist

June 2012 - September 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

June 2011 - September 2011



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

Teradata, Internship, Los Angeles, CA, USA

Software Engineer

June 2010 - September 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. The framework determined the required amount of resources to handle a given load.

Commission Junction, Internship, Santa Barbara, CA, USA

Software Engineer

2005 and 2006 Summers



- Developed a framework for automated Customer Acceptance Tests.

PUBLICATIONS

Xiaokui Shu, **Nikolay Laptev**, Danfeng Yao, DECT: Distributed Evolving Context Tree for Understanding User Behavior Pattern Evolution, EDBT 2016 (Full Paper)

Xiaokui Shu, **Nikolay Laptev**, Danfeng Yao, DECT: Distributed Evolving Context Tree for Understanding User Behavior Pattern Evolution, AAAI 2016 (DEMO)

Rob Hyndman, **Nikolay Laptev**, Earo Wang, Large-Scale Unusual Time Series Detection, ICDM 2015.

George D Montanez, Saeed Amizadeh, **Nikolay Laptev**, Inertial Hidden Markov Models: Modeling Change in Multivariate Time Series, AAAI 2015

Nikolay Laptev, Saeed Amizadeh, Ian Flint, Generic and Scalable Framework for Automated Time-series Anomaly Detection, KDD 2015

Ilaria Bordino, Nicolas Kourtellis, **Nikolay Laptev**, Youssef Billawala, Stock Trade Volume Prediction with Yahoo Finance User Browsing Behavior, ICDE 2014.

Nikolay Laptev, Kai Zeng, Carlo Zaniolo, Very Fast Estimation for Result and Accuracy of Big Data Analytics: the EARL System, ICDE 2013.

Nikolay Laptev, Tsai-Ching Lu, Carlo Zaniolo, BOOT-TS: A Scalable Bootstrap for Massive Time-Series Data, NIPS 2012.

Nikolay Laptev, Kai Zeng, Carlo Zaniolo, Early Accurate Results for Advanced Analytics on MapReduce, VLDB 2012.

Nikolay Laptev, Carlo Zaniolo, Optimization of Massive Pattern Queries by Dynamic Configuration Morphing, ICDE 2012.

Hetal Thakkar, **Nikolay Laptev**, Hamid Mousavi, Barzan Mozafari and Carlo Zaniolo, SMM: a Data Stream Management System for Knowledge Discovery, ICDE 2011.

Ali Irturk, Bridget Benson, **Nikolay Laptev**, Ryan Kastner Architectural Optimization of Decomposition Algorithms for Wireless Communication Systems, WCNC 2009.

Ali Irturk, Bridget Benson, **Nikolay Laptev**, Ryan Kastner, FPGA acceleration of mean variance framework for optimal asset allocation, WHPCF 2008.

SELECTED TALKS

- 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

Hobbies: Basketball league, Github contributor (username: nlaptev), marathon runner.
Languages: English, Russian, Spanish.
Personality: A lots of enthusiasm and energy for solving difficult problems.

REFERENCES

- Mayur Deshpande, Google, Realtime Analytics Lead, nep@google.com
- Pekka Kostamaa, Teradata, Chief of Advanced Development, pekka.kostamaa@teradata.com
- Yun Chao, Citrix, Lead of Performance Team, yun.chao@citrix.com
- Carlo Zaniolo, UCLA, Professor, zaniolo@cs.ucla.edu