Josua Krause

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Personal Information

date of birth:	January 18th, 1988
place of birth:	Isny im Allgäu
nationality:	Germany

Education

University, NYU Tandon School of Engineering

New York, USA – 2013 - (planned) 2018
PhD in Computer Science
thesis: "Visual Analytics in Predictive Modeling of Medical Data"
supervised by: Prof. Dr. Enrico Bertini

University, University of Konstanz

Konstanz, Germany – 2011 - 2014
Master of Science in Computer Science
thesis: "Graph Comics: Interactive Staging for Exploring Dynamic Graphs"
supervised by: Prof. Dr. Oliver Deussen, Prof. Dr. Enrico Bertini

University, University of Konstanz

Konstanz, Germany – 2008 - 2011
Bachelor of Science in Information Engineering
thesis: "Annotation of Changes in Evolving Graphs"
supervised by: Prof. Dr. Oliver Deussen, Prof. Dr. Ulrik Brandes

Employments

IBM T. J. Watson Research Center

New York, USA – 2014 and 2015
summer internships

NYU Tandon School of Engineering

New York, USA – 2013 - (planned) 2018
research assistant
    teaching assistant in course:

- Information Visualization 2015 Spring

- Information Visualization 2015 Fall

University of Konstanz

Konstanz, Germany – 2009 - 2013
research assistant

University of Konstanz

Konstanz, Germany – 2011 - 2012
teaching assistant in courses:

- Concepts of Computer Science (Bachelor)

- Concepts of Programming (Bachelor)

Research

Under Review

Anshul Vikram Pandey, **Josua Krause**, Cristian Felix, Jeremy Boy, and Enrico Bertini: **"Towards Understanding Human Similarity Perception in the Analysis of Large Sets of Scatter Plots"**,
submitted to *ACM Conference on Human Factors in Computing Systems (CHI)* 2016

Josua Krause, Adam Perer, and Kenney Ng: **"Interacting with Predictions: Visual Inspection of Black-box Machine Learning Models"**,
submitted to *ACM Conference on Human Factors in Computing Systems (CHI)* 2016

2015

Josua Krause, Adam Perer, and Harry Stavropoulos: **"Supporting Iterative Cohort Construction with Visual Temporal Queries"**,
IEEE Transactions on Visualization and Computer Graphics (TVCG - VAST), Vol. 22, No. 1, pp. 1077-2626, 2015

Josua Krause, Narges Razavian, Enrico Bertini, and David Sontag: **"Visual Exploration of Temporal Data in Electronic Medical Records"**,
Poster Session I of the AMIA Annual Symposium; Poster, 2015

Josua Krause and Adam Perer: **"Data-Driven Cohort Construction with Interactive Visual Queries"**,
2015 Workshop on Visual Analytics in Health Care; Demo, 2015

Josua Krause, Narges Razavian, Enrico Bertini, and David Sontag: **"Visual Inspection of Longitudinal Electronic Medical Records"**,
2015 Workshop on Visual Analytics in Health Care; Demo, 2015

2014

Josua Krause, Adam Perer, and Enrico Bertini: **"INFUSE: Interactive Feature Selection for Predictive Modeling of High Dimensional Data"**,
IEEE Transactions on Visualization and Computer Graphics (TVCG – VAST), Vol. 20, No. 1, pp. 1614-1623, 2014

2012

Josua Krause, Marc Spicker, Leonard Wörteler, Matthias Schäfer, Leishi Zhang, and Hendrik Strobelt: **"Interactive Visualization for Real-time Public Transport Journey Planning"**,
Proceedings of SIGRAD 2012 – Interactive Visual Analysis of Data, pp. 95-98, 2012