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Courant Institute of Mathematical Sciences

**EDUCATION:**

Yale University B.S. Engineering & Applied Science 1977

Syracuse University M.S. Computer Science 1980

Harvard University Ph.D. Applied Mathematics 1984

**APPOINTMENTS:**

1995 - Present Full Professor, Courant Institute of Mathematical Sciences, New York University

1990 - 1995 Associate Professor, Courant Institute of Mathematical Sciences, New York University

1984 - 1990 Assistant Professor, Courant Institute of Mathematical Sciences, New York University

1993 - Present Co-Editor-in-Chief (with Gottfried Vossen) of Information Systems, Publisher: Elsevier North Holland

2006 - 2007 Invited Professor, INRIA, Roquencourt, France

1998 - 1999 Invited Professor, INRIA, Roquencourt, France

1992 - 1993 Invited Professor, INRIA, Roquencourt, France

**5 PUBLICATIONS RELATED TO THIS PROPOSAL:**

1. Juliana Freire, Philippe Bonnet, and Dennis Shasha ``Computational Reproducibility: State-of-the-Art,

Challenges, and Database Research Opportunities'' ACM SIGMOD 2012

2. [Philippe Bonnet](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/b/Bonnet:Philippe.html), [Stefan Manegold](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/m/Manegold:Stefan.html), [Matias Bjørling](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/b/Bj=oslash=rling:Matias.html), [Wei Cao](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/c/Cao:Wei.html), [Javier Gonzalez](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/g/Gonz=aacute=lez:Javier.html), [Joel Granados](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/g/Granados:Joel.html), [Nancy Hall](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/h/Hall:Nancy.html), [Stratos Idreos](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/i/Idreos:Stratos.html), [Milena Ivanova](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/i/Ivanova:Milena.html), [Ryan Johnson](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/j/Johnson:Ryan.html), [David Koop](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/k/Koop:David.html), [Tim Kraska](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/k/Kraska:Tim.html), [René Müller](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/m/M=uuml=ller:Ren=eacute=.html), [Dan Olteanu](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/o/Olteanu:Dan.html), [Paolo Papotti](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/p/Papotti:Paolo.html), [Christine Reilly](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/r/Reilly:Christine.html), [Dimitris Tsirogiannis](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/t/Tsirogiannis:Dimitris.html),[Cong Yu](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/y/Yu:Cong.html), [Juliana Freire](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/f/Freire:Juliana.html), Dennis Shasha: Repeatability and workability evaluation of SIGMOD 2011. [SIGMOD Record 40](http://www.informatik.uni-trier.de/~ley/db/journals/sigmod/sigmod40.html#BonnetMBCGGHIIJKKMOPRTYFS11)(2): 45-48 (2011)

3. [Stefan Manegold](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/m/Manegold:Stefan.html), [Ioana Manolescu](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/m/Manolescu:Ioana.html), [Loredana Afanasiev](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/a/Afanasiev:Loredana.html), [Jianlin Feng](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/f/Feng:Jianlin.html), [Gang Gou](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/g/Gou:Gang.html), [Marios Hadjieleftheriou](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/h/Hadjieleftheriou:Marios.html), [Stavros Harizopoulos](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/h/Harizopoulos:Stavros.html),[Panos Kalnis](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/k/Kalnis:Panos.html), [Konstantinos Karanasos](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/k/Karanasos:Konstantinos.html), [Dominique Laurent](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/l/Laurent:Dominique.html), [Mihai Lupu](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/l/Lupu:Mihai.html), [Nicola Onose](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/o/Onose:Nicola.html), [Christopher Ré](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/r/R=eacute=:Christopher.html), [Virginie Sans](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/s/Sans:Virginie.html), [Pierre Senellart](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/s/Senellart:Pierre.html), [T. Wu](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/w/Wu:T=.html), Dennis Shasha: Repeatability & workability evaluation of SIGMOD 2009. [SIGMOD Record 38](http://www.informatik.uni-trier.de/~ley/db/journals/sigmod/sigmod38.html#ManegoldMAFGHHKKLLORSSWS09)(3): 40-43 (2009)

4. [Ioana Manolescu](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/m/Manolescu:Ioana.html), [Loredana Afanasiev](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/a/Afanasiev:Loredana.html), [Andrei Arion](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/a/Arion:Andrei.html), [Jens Dittrich](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/d/Dittrich:Jens.html), [Stefan Manegold](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/m/Manegold:Stefan.html), [Neoklis Polyzotis](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/p/Polyzotis:Neoklis.html), [Karl Schnaitter](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/s/Schnaitter:Karl.html), [Pierre Senellart](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/s/Senellart:Pierre.html), [Spyros Zoupanos](http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/z/Zoupanos:Spyros.html), Dennis Shasha: The repeatability experiment of SIGMOD 2008. [SIGMOD Record 37](http://www.informatik.uni-trier.de/~ley/db/journals/sigmod/sigmod37.html#ManolescuAADMPSSZS08)(1): 39-45 (2008)

# 5 OTHER SIGNIFICANT PUBLICATIONS:

Chen HW, Bandyopadhyay S, Shasha DE, and Birnbaum KD (2010)``Estimation of genome-wide redundancy in Arabidopsis thaliana.” ***BMC Evolutionary Biology***, 10:357; doi:10.1186/1471-2148-10-357.

Poultney CS, Gutirrez RA, Katari MS, Gifford ML, Paley WB, Coruzzi GM and Shasha DE (2006) “Sungear: Interactive visualization and functional analysis of genomic datasets" ***Bioinformatics***, 23(2):259-61, doi:10.1093/bioinformatics/btl496.

Birnbaum K, Shasha DE, Wang JY, Jung JW, Lambert GM, Galbraith DW and Benfey PN (2003) "A gene expression map of the Arabidopsis root" ***Science***, 302(5652):1956-1960   
doi: 10.1126/science.1090022

Shasha D and Bonnet P (2002) *Database Tuning: Principles Experiments and Troubleshooting Techniques*, **Morgan Kaufmann Publishers**, ISBN 1-55860-753-6, Paper, 464 Pages.

Chang J and Shasha D (2011) *Stored Clocked Programs Inside DNA: a simplifying framework for Nanocomputing,* **Morgan and Claypool**, 66 pages