NICHOLAS P. TATONETTI

215 Campus Drive West, MSOB x215, Stanford, CA 94305
480 467 7456
nick.tatonetti@stanford.edu

EDUCATION

Stanford University — **In Progress**
Ph.D. Biomedical Informatics

Arizona State University — 2008
B.S. Molecular Biosciences/Biotechnology *summa cum laude*

Arizona State University — 2008
B.S. Computational Mathematical Sciences *summa cum laude*

AWARDS AND HONORS

National Library of Medicine Training Grant Recipient	September 2008
Phi Beta Kappa Lifetime Member	November 2007
Beckman Scholar Award	May 2006 - May 2007
Goldwater Scholar Honorable Mention	April 2007
ASU SOLUR Researcher Award	August 2005 - May 2006
Molecular Biosciences/Biotechnology Outstanding Student	May 2006

PUBLICATIONS

Tatonetti NP, Liu T, Altman RB. Predicting drug side-effects by chemical systems biology. Genome Biol (2009) vol. 10 (9) pp. 238

Chen R, Sigdel TK, **Tatonetti NP**, Li L, Kambham N, Heish S, Klassen RB, Chen A, Caohuu T, Valantine HA, Khush KK, Sarwal MM, Butte AJ. Three serum protein biomarkers for cross-organ transplant rejection found through integrative genomics. Nature Biotechnology (*Accepted*).

PEER REVIEWED CONFERENCE PUBLICATIONS

Garten Y*, **Tatonetti NP***, Altman RB. Improving the prediction of pharmacogenes using text-derived drug-gene relationships. Pacific Symposium on Biocomputing 2010 (*Accepted).*
****co-first author***

Tatonetti NP, Dudley J, Altman RB. A Novel Method for Scoring Candidate Genes in Association Studies: Application to Warfarin Response. AMIA Summit on Translational Informatics 2010 (*Submitted*).

CONFERENCE PRESENTATIONS

Tatonetti NP, Crook S, Vermaas W. MetabolODE: Optimization software for determining kinetic rate coefficients for biochemical pathways of metabolic isotopomers. Frontiers in Applied and Computational Mathematics 2007.

CONFERENCE POSTERS

Tatonetti NP, Dudley J, Altman RB. Defining pharmacogene sets that predict abnormal drug response to warfarin. Biomedical Computation at Stanford 2009.

Tatonetti NP, Crook S, Vermaas W. Parameter optimization in underdetermined biochemical networks. MetabolODE Optimizaiton Software: How to solve an impossible problem. Beckam Scholars Symposium 2008.

Tatonetti NP, Crook S, Vermaas W. Optimization of in-vitro kinetic rate coefficients in biochemical reaction pathways. School of Life Sciences Research Symposium 2007.

TEACHING EXPERIENCE

Teaching Assistant, Modeling biomedical systems: ontology, terminology, problem solving (BIOMEDIN210), Stanford University
September 2009 - December 2009

RELATED AND PROFESSIONAL EXPERIENCE

Mophilia, Inc., Mountain View, CA — February 2009 - Present
Chief Science Officer

The CHERUB Foundation — August 2006 - August 2008
Co-Founder *(volunteer)*

The Triple Helix, Inc. — May 2006 - October 2007
Chief Technical Officer *(volunteer)*

The Triple Helix at ASU — January 2006 - December 2006
Vice President / Co-Founder *(volunteer)*

Tatonetti Web_Construction, Tempe, AZ — January 2003 - August 2008
Founder / Owner

KNOWLEDGE AND SKILLS

Biomedical data analysis, systems and chemical biology, pharmacogenomics, chemical informatics, network analysis, parametric and non-parametric statistics, hypothesis testing, bootstrapping, machine learning, gene-expression analysis.

C, C++, Fortran, Java, Matlab, Objective-C, PHP, Python, Scheme, Prolog, Linux, Windows, OS X, SQL databases.