

Nicholas Giangreco

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Website:	nickg.bio
Programming Languages:	Frequent: R, Python, bash, css, html, sql Previously: Java
Formatting:	LaTeX, Markdown, Rmarkdown, Microsoft Office Suite

EDUCATION

2021 (expected) PhD Candidate, Systems Biology; Columbia University, New York City, NY

PhD advisor: Nicholas Tatonetti

Topics: Translational Bioinformatics, Pharmacoepidemiology, Analysis of Electronic Health Records

2010-2014 BS, Biochemistry; University of Rochester, Rochester, NY

Minor: Philosophy

WORK EXPERIENCE

2014-Present National Human Genome Research Institute; Bethesda, MD

Principal Investigator: Dr. Laura Elnitski

- Molecular events during tumorigenesis of murine ovarian tumor subtypes differing in deletion of tumor suppressor genes
- RNA sequencing, DNA methylation sequencing, and their integration.

Trainee 2014-2016

Special Volunteer 2016-Present

FELLOWSHIPS AND AWARDS

- Columbia Diversity Fellowship
- Department of Systems Biology Merit Fellowship
- Donald Charles Award, University of Rochester Department of Biology

- Fulbright Fellowship Alternate 2013-2014: Sweden, Molecular Modeling, “Novel Antibody-SpA Complex Modeling”.
- Travel Award to 9th Student Council and ISMB/ECCB conference 2013 Berlin, Germany.

PUBLICATIONS AND POSTERS

- **Nicholas Giangreco**, Emmanuel Zorn, Emily Chen, Paolo Colombo, Nicholas Tatonetti, and Barry Fine. **Identification of Novel Primary Graft Dysfunction Biomarkers using Exosome Proteomics.** *American Heart Association Scientific Sessions 2017*, poster.
- Sarah Kim-Hellmuth, Matthias Bechheim, Benno Puetz, Pejman Mohammadi, Yohann Nedelec, **Nicholas Giangreco**, Jessica Becker, Vera Kaiser, Nadine Fricker, Esther Beier, Peter Boor, Stephane Castel, Markus M. Noethen, Luis B. Barreiro, Joseph K. Pickrell, Bertram Mueller-Myhsok, Tuuli Lappalainen, Johannes Schumacher, Veit Hornung. **Genetic regulatory effects modified by immune activation contribute to autoimmune disease associations** *Nature Communications*, 8 (266): 1-10.
- **Giangreco N.**, Petrykowska H., Scott A., Margolin G., Gotea V., Cho K. R., and Elnitski L. **Inactivation of Arid1a drives aberrant epigenetic traits in a mouse model of Apc/Pten defective ovarian endometrioid tumors.** (*in preparation*)
- **Nicholas Giangreco**, Tim Lezon. **Alternative conformation prediction of Vibrio Cholerae concentrative nucleoside transporter.** *F1000Research 2012*, poster.

CONFERENCES AND HACKATHONS

- American Heart Association Scientific Sessions 2017, poster presentation *Giangreco et al. 2017*.
- NCBI Hackathon @ New York Genome Center June 2017.
- NCBI Hackathon @ NCBI March 2017.
- CSHL Biological Data Science meeting October 2016.
- JHU DaSH Hackathon September 2015.
- ISMB/ECCB conference @ Berlin, Germany July 2013, poster presentation *Giangreco et al. 2012*.

INVITED TALKS AND PANELS

- “AI, Life Sciences, and Big Data”, AI Meetup in NYC, August 2017
- NIDDK Undergraduate Step-Up Judge, NIH, Bethesda MD, August 2015

COMMUNITY INVOLVEMENT

- NYC MeetUps
 - AI @ Columbia University Medical Center
 - * Attend and engage in public discourse on a wide range of topics such as AI & Society, AI & Healthcare, and economic impact by AI.
 - * Facilitate group engagement and organization by consult
 - Data Storytelling
 - * Monthly lectures by data scientists and managers from private companies presenting stories and narratives using visualizations and interactive methods on diverse sources of data.
 - Statistical programming
 - * Monthly seminars by data scientists, engineers and analysts using novel and statistically rigorous methods applied within academic and company research teams mainly using the R programming language.
- CUMC Data Science Study Group
 - Co-organizer of mostly wet-lab biologists learning data science topics using the R programming language
 - Leading project management and learn strategies for doing bioinformatics projects.