

# Nicholas Giangreco

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<b>Email:</b>	nick.giangreco@gmail.com
<b>Links:</b>	Github LinkedIn ORCID
<b>Website:</b>	nickg.bio
<b>Programming Languages:</b>	Frequent: R, Python, Bash, SQL Previously: Java
<b>Web design:</b>	HTML, CSS, Bootstrap library
<b>Formatting:</b>	LaTeX, Markdown, Jupyter Notebooks, Rmarkdown, Microsoft Office Suite

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## 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

- **Giangreco N**, Zorn E, Chen E et al. Identification of novel primary graft dysfunction biomarkers using exosome proteomics [version 1; not peer reviewed]. F1000Research 2017, 6:2080 (poster) (doi: 10.7490/f1000research.1115115.1)

- 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*)
- **Giangreco N** and Lezon T. Alternative conformation prediction of Vibrio Cholerae concentrative nucleoside transporter. F1000Posters 2013, 4:776 (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. 2013*.

## TALKS AND PANELS

- “Tools, Libraries and Analyses in Biomedical Data Science”, New York Healthcare Artificial Intelligence Society, December 2017.
- “Doing Science with Big Data”, Late Night Science, Columbia University Neuroscience Outreach, December 2017
- “AI, Life Sciences, and Big Data”, New York Healthcare Artificial Intelligence Society, August 2017
- NIDDK Undergraduate Step-Up Judge, NIH, Bethesda MD, August 2015

## PROFESSIONAL MEMBERSHIPS

- American Heart Association, 2017-
- International Society of Computational Biology, 2013-2014 & 2017-

## 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 for bioinformatics projects.