September 11th, 2017

# [Nicholas Giangreco](http://systemsbiology.columbia.edu/people/nicholas-giangreco)

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| Email | Links |
| nick.giangreco@gmail.com | [Github](https://github.com/ngiangre) [Linkedin](https://www.linkedin.com/in/nickgiangreco/) [Facebook](https://www.facebook.com/ngiangreco) |

## RESEARCH

* Biomedical Data Science
* Analysis of high throughput biomedical data: RNA sequencing, Proteomics
* Systems Pharmacology and Disease Comorbidity in Electronic Health Records
* Programming Languages: R, Python, bash, html, css

## EDUCATION

**Columbia University; New York, NY** *PhD Candidate in Systems Biology*, *Anticipated Summer 2020*PhD advisor: [Nicholas Tatonetti](http://tatonettilab.org)**University of Rochester; Rochester, NY**

*Bachelor of Science in Biochemistry, May 2014*

## WORK EXPERIENCE

**National Human Genome Research Institute Bethesda, MD**

*Post-baccalaureate Trainee August 2014-August 2016*

*Special Volunteer August 2016-Present*

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.

## 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

* 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*](https://www.nature.com/articles/s41467-017-00366-1)
* **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)*

## CONFERENCES AND HACKATHONS

* [NCBI Hackathon @ New York Genome Center June 2017](https://github.com/NCBI-Hackathons/Proteomic_Correlation_Shiny)- [NCBI Hackathon @ NCBI March 2017](https://github.com/NCBI-Hackathons/Scan2CNV)- CSHL Biological Data Science meeting October 2016- [JHU DaSH Hackathon September 2015](https://github.com/NCBI-Hackathons/DASH_cell_type)- ISMB/ECCB conference @ Berlin, Germany July 2013

## COMMUNITY INVOLVEMENT

* NYC MeetUps
  + [AI @ Columbia University Medical Center](https://www.meetup.com/AI-at-CUMC/)
  + [Data Storytelling](https://www.meetup.com/Data-Storytelling-NYC/)
  + [Statistical programming](https://www.meetup.com/nyhackr/)
* [CUMC Data Science Study Group](https://github.com/ngiangre/CUMC_Data_Science_Group)