

## CURRICULUM VITÆ

**FULL NAME:** Joseph Daniel Romano

**CURRENT POSITION:** PhD Student,  
Graduate Research Assistant

**INSTITUTION:** Columbia University Medical Center

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New York, NY 10032

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### EDUCATION

2014–present **Doctor of Philosophy** — Prospective (Biomedical Informatics)  
Thesis advisor: Nicholas Tatonetti, PhD  
Columbia University; New York, NY

2014–present **Master of Philosophy** — Prospective (Biomedical Informatics)  
Columbia University; New York, NY

2010–2014 **Bachelor of Science** (Molecular Genetics)  
Research Advisor: Neil Sarkar, PhD, MLIS, FACMI  
University of Vermont; Burlington, VT

2011–2012 International Student Exchange Program  
C.I.E.L.D. (国際関係学部国際教育センター)  
Nihon University; Mishima, Shizuoka prefecture, Japan

2009–2010 Molecular Genetics  
Undergraduate Program in Biology and Medicine  
University of Rochester; Rochester, NY

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### PUBLICATIONS

1. **Romano JD**, Tharp WG, Sarkar IN. “Exploring Complex Disease Gene Relationships Using Simultaneous Analysis.” *UVM Honors College Senior Theses*. 2014.
2. **Romano JD**, Tharp WG, Sarkar IN. “Adapting Simultaneous Analysis Phylogenomic Techniques to Study Complex Disease Gene Relationships.” *Journal of Biomedical Informatics*; 2014 Apr;(54):10–38.
3. **Romano JD**, Tatonetti NP. “VenomKB, a new knowledge base for facilitating the validation of putative venom therapies.” *Scientific Data*; 2015 Nov;(2):65.
4. Boland MR, Jacunski A, Lorberbaum T, **Romano JD**, Moskovitch R, Tatonetti NP. “Systems Biology Approaches for Identifying Adverse Drug Reactions and Elucidating Their Underlying Biological Mechanisms.” *WIREs Systems Biology and Medicine*; 2016 Mar;8(2):104–22.
5. **Romano JD**, Tatonetti NP. “Using a Novel Ontology to Inform the Discovery of Therapeutic Peptides from Animal Venoms.” *Proceedings of the AMIA Joint Summits on Translational Science (Runner-up, TBI student paper competition)*.; 2016.

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## CONFERENCE PRESENTATIONS and TALKS

- 2015      **Venom Peptides as Therapeutic Agents: Can we use Phylogenetics to Inform Drug Discovery?**, *13th Annual Rocky Mountain Bioinformatics Conference*, International Society for Computational Biology; Aspen, CO
- 2015      **Data-Driven Clinical Research Generalizability Assessment and Improvement**, *8th Annual Mid-Atlantic Healthcare Informatics Symposium*, Department of Biomedical and Health Informatics, The Children's Hospital of Philadelphia; Philadelphia, PA
- 2015      **Computational Prediction of Therapeutic Uses for Venom Compounds**, *Research Seminar Series in Biomedical Informatics*, Columbia University Department of Biomedical Informatics; New York, NY
- 2015      **Observational Health Data Sciences and Informatics (OHDSI)**, *Innovation and Application @ Columbia*, Columbia University Data Science Institute; New York, NY

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## FELLOWSHIPS and GRANT SUPPORT

- 2015-present    **NLM T15 Training Fellow**, National Library of Medicine

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## HONORS and AWARDS

- 2010–2014      **Honors Scholar**, University of Vermont Honors College
- 2010–2014      **Vermont Scholar**, University of Vermont
- 2009            **AP Scholar with Honors**, College Board
- 2009            **National Merit Scholar**, National Merit Scholarship Corporation
- 2009            **Eagle Scout**, Boy Scouts of America

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## BOARD and COMMITTEE APPOINTMENTS

- 2014            **Committee Member**, “*Year In Review: Informatics in the Media 2014*” *Student Review Committee*, American Medical Informatics Association Annual Symposium; Washington, D.C.
- 2015            **Assistant Editor**, *Editorial Committee*, 15th World Congress on Health and Biomedical Informatics; São Paulo, Brazil
- 2015-present   **Communications and Social Media Coordinator**, *AMIA Genomics and Translational Bioinformatics Working Group*, American Medical Informatics Association

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## REVIEW ACTIVITIES

*AMIA Summit on Translational Bioinformatics*  
*IEEE International Conference on Healthcare Informatics*  
*Nature Scientific Reports*  
*Pacific Symposium on Biocomputing*  
*World Congress on Health and Biomedical Informatics*

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## PROFESSIONAL MEMBERSHIPS and AFFILIATIONS

- 2014–present   International Society for Computational Biology
- 2014–present   New York Academy of Sciences
- 2014–present   American Association for the Advancement of Science

2012–present American Medical Informatics Association (AMIA)  
2011–2014 Alpha Zeta academic honors fraternity  
2011–2014 UVM Biochemistry Society

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## WORK EXPERIENCE

2010–2014 **Level IV Lead Technician**, *University of Vermont Enterprise Technology Services*; Burlington, VT.  
Student management position at a walk-in software support clinic and telephone computing helpline serving all students, faculty, and staff at the University of Vermont.

2007–2014 **Front Desk Manager**, *Cedarbrook at Killington / North Star Lodge*; Killington, VT.  
Oversaw all aspects of customer service at a timeshare resort. Includes answering phone calls, checking in/out guests, auditing the resort, and overseeing property maintenance.

Summer 2010 **Desktop Support Technician**, *Central Vermont Public Service*; Rutland, VT.  
Summer internship providing software and hardware support for all CVPS employees, as well as maintaining and troubleshooting the company's enterprise-level network.

2009–2010 **IT Technician**, *University of Rochester ITS*; Rochester, NY.  
Provided desktop support to faculty, staff, and students of the University of Rochester. Additionally, managed computing lab facilities available to University affiliates.

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## TEACHING EXPERIENCE

Spring 2014 *Linux and UNIX Operating Systems*.  
UVM Enterprise Technology Services, UVM TechTeam; Burlington, VT.

Spring 2012 *MMG 104 — Introduction to Recombinant DNA Technology* (Teaching Assistant).  
UVM Department of Microbiology and Molecular Genetics; Burlington, VT.

Fall 2011 English Language Teaching Assistant.  
Nihon University College of International Relations; Mishima, Japan.