Carlos Martinez

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Education

Georgia Institute of Technology
Master of Science, Electrical & Computer Engineering
Aug. 2016 – May 2018 (Coursework complete Dec. 2017)
3.7 GPA

New York University
Bachelor of Science, Mathematics
Sept. 2011 – Dec. 2015; Brooklyn, NY
Minors: Computer Science, Electrical Engineering, Nuclear Science & Engineering
3.7 GPA; Magna Cum Laude

Employment

(Head) Teaching Assistant – Georgia Institute of Technology
Head TA: May 2017 – Dec. 2017; TA: Aug. 2016 – May 2017; Atlanta, Georgia
Conduct MATLAB-based laboratory sections of ECE2026 (intro digital signal processing) and host review sessions. As head TA: coordinate and train other TAs to conduct labs and grade homework

Assistant Research Technician - NYU Langone Medical Center, Cancer Institute
May 2014 – July 2016; New York, New York
Researcher for the Kirchhoff Lab specializing in cancer genetics. Responsible for data pipelines and statistical analysis of genetic sequencing using a high-performance cluster computing environment. Secondary responsibilities include grant and manuscript preparation, project presentations, and wet lab assistance.

Tutor – NYU Tandon School of Engineering, TRIO Scholars Program
September 2013 – December 2015; Brooklyn, New York
One-on-one and small group tutor for introductory-to-advanced level math and physics courses.

Publications

M. Vogelsang, **C. N. Martinez**, J. Rendleman, A. Bapodra, K. Malecek, A. Romanchuk, E. Kazlow, R. L. Shapiro, R. S. Berman, M. Krogsgaard, et al., "The expression quantitative trait loci in immune pathways and their effect on cutaneous melanoma prognosis," Clinical Cancer Research, 2016.

R. Ferguson, M. Vogelsang, E. Ucisik-Akkaya, K. Rai, R. Pilarski, **C. N. Martinez**, J. Rendleman, E. Kazlow, K. Nagdimov, I. Osman, et al., "Genetic markers of pigmentation are novel risk loci for uveal melanoma," Scientific reports, vol. 6, p. 31191, 2016.

Conference Poster Sessions

American Society of Clinical Oncology (ASCO) 2017 Annual Meeting

R. Ferguson, D. Simpson, **C. N. Martinez**, M. Vogelsang, E. Kazlow, U. Moran, J. S. Weber, R. J. Sullivan, K. Flaherty, A. C. Pavlick, A. Ribas, I. Osman, and T. Kirchhoff, "Expression quantitative trait loci (eqtls) as germline determinants of melanoma immunotherapy response.," Journal of Clinical Oncology, vol. 35, no. 15 suppl, pp. 3017–3017, 2017.

D. Simpson, R. Ferguson, **C. N. Martinez**, E. Kazlow, U. Moran, A. Heguy, D. Hanniford, E. Hernando, I. Osman, and T. Kirchhoff, “Mutation burden as a potential prognostic marker of melanoma progression and survival.,” Journal of Clinical Oncology, vol. 35, no. 15 suppl, pp. 9567–9567, 2017.

E. Kazlow, R. Ferguson, D. Simpson, **C. N. Martinez**, M. Vogelsang, U. Moran, Y. Lee, I. Osman, D. Polsky, and T. Kirchhoff, “Novel germline risk loci in familial melanoma (fm).,” Journal of Clinical Oncology, vol. 35, no. 15 suppl, pp. 1535–1535, 2017.

ASCO 2016 Annual Meeting

(Presented) D. Hanniford, **C. N. Martinez**, I. Dolgalev, M. W. Lattanzi, E. V.-S. de Miera, E. M. Robinson, C. Goldman, A. Heguy, T. Kirchhoff, I. Osman, and E. Hernando, “Targeted next-generation sequencing of melanoma patient samples to reveal mutations in non-protein coding regions of targetable oncogenes.,” Journal of Clinical Oncology, vol. 34, no. 15 suppl, pp. 9559–9559, 2016.

T. Kirchhoff, E. Ucisik-Akkaya, M. Vogelsang, K. Rai, R. Pilarski, **C. N. Martinez**, R. Ferguson, E. Kazlow, I. Osman, F. H. Davidorf, C. M. Cebulla, and M. Abdel-Rahman, “The identification of novel genetic risk loci in uveal melanoma.,” Journal of Clinical Oncology, vol. 34, no. 15 suppl, pp. 1543–1543, 2016.

S. A. Weiss, **C. N. Martinez**, E. V.-S. de Miera, I. Dolgalev, R. L. Shapiro, A. Heguy, E. Hernando, T. Kirchhoff, and I. Osman, “Genomic characterization of acral lentiginous melanoma: Identification of altered metabolism as a potential therapeutic target.,” Journal of Clinical Oncology, vol. 34, no. 15 suppl, pp. 9524–9524, 2016.

Academics

Gates Millennium Scholar
2011 - 2017
Full-ride scholarship awarded by the Bill & Melinda Gates Foundation to minority high school students exhibiting academic promise and commitment to community service

Technical Skills

- General Programming: **C++, Python, shell scripting**
- Statistical data analysis and numerical computation: **Numpy, R, MATLAB, Excel**
- Machine learning libraries: **Scikit, Keras**
- Equally comfortable in **Windows** or **UNIX**-based OS
- Professional communication in technical formats (manuscripts, reviews, poster presentations)