

Niko McCarty

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EDUCATION	New York University , New York, NY M.A. in Journalism; Science, Health & Environmental Reporting California Institute of Technology , Pasadena, CA M.S. Bioengineering Imperial College London , London, UK MRes Systems and Synthetic Biology; Fulbright Scholar University of Iowa , Iowa City, IA B.S. Biochemistry, Honors (3.94/4.00); Phi Beta Kappa	09/2020-present 09/2018-05/2020 09/2017-09/2018 08/2013-05/2017
WRITING EXPERIENCE	Scienceline (New York, NY) (link) Reporting and writing about science and technology for Scienceline.org, a digital publication run by NYU's SHERP program. This Week in Synthetic Biology (New York, NY) (link) Writing a weekly newsletter on synthetic biology research and preprints (~1000 subscribers); Production on Substack. SynBioBeta.com (Pleasant Hill, CA) (link) Covering everything from synthetic indigo to yeast-made silk, DNA synthesis and carbon recycling with microbes. Several articles syndicated in Forbes and GreenBiz. PLoS SynBio (San Francisco, CA) (link) Writing "behind-the-scenes" articles on trending research in synthetic biology. Iowa City UNESCO City of Literature (Iowa City, IA) (link) Writing a series of articles featuring local writers and (haunted) bookstore owners for this national, literary nonprofit. Little Village Magazine (Iowa City, IA) (link) Writing about bees and neonicotinoids, as well as plastic produced by microbes, for this arts and culture magazine. National Writing Fellow, Phi Beta Kappa (Washington, D.C.) (link) Writing articles on the intersection of art and science during this competitive summer fellowship, including a feature on Cornel West and a piece on crocheted coral reefs.	09/2020-present 08/2020-present 01/2019-04/2020 09/2019-02/2020 06/2017-08/2017 04/2017-08/2017 01/2016-05/2016
PRIOR RESEARCH	California Institute of Technology, Rob Phillips Lab (link) Single-molecule biophysics and next-generation sequencing in <i>E. coli</i> . Imperial College, Rodrigo Ledesma-Amaro & Tom Ellis Labs (link) CRISPR-based tools and synthetic biology research in yeast. Co-Founder/Co-Leader, Iowa Synthetic Biology Laboratory (link) Leading the first synthetic biology laboratory in eastern Iowa; recruiting students and faculty mentors, fundraising \$17,000, and entering the 2017 iGEM competition. University of Iowa, E. Dale Abel Lab (link) Using immunoblotting, transgenic mice, and histology to dissect the molecular mechanisms linking impaired insulin signaling and heart failure.	04/2019-05/2020 12/2017-09/2018 12/2016-08/2017 09/2013-08/2017
ACADEMIC PAPERS	Published research, including peer-reviewed articles on CRISPR technologies, microbial communities, and cardiovascular medicine, can be found on my Google Scholar .	
RELEVANT SKILLS	JavaScript (D3, Vega-Lite, ScrollTrigger), Python (Web Scraping, NumPy, Pandas, Matplotlib/Seaborn), web development (HTML, Sass/CSS, JS), Adobe (Illustrator, Audition, basic Photoshop, basic After Effects). View some of my data visualizations on Observable .	
SELECTED HONORS	Rennie Taylor/Alton Blakeslee Fellowship , CASW (link) Arthur Carter Fellowship , New York University Centenary Prize for MRes Systems and Synthetic Biology Matthew Barzun Prize for Youth Engagement (link) US-UK Fulbright Postgraduate Scholar , Imperial College London (link) Barry Goldwater Scholar (link) Latham Fellow in Science Communication , University of Iowa (link)	2020 2020 2018 2018 2017 2016 2015