

# Niko McCarty

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