

<p><b>Personal information</b></p> <p>Surname(s) / First name(s) Profile</p>	<p><b>Bargteil, Dylan Zachary</b></p> <p>PhD physicist with 5 years experience in quantitative analysis (Python/MATLAB), interested in applying skills to social dynamics, behavior, and problems.</p>
<p><b>Education</b></p> <p>New York University Sept 2012 - March 2017 New York, NY</p> <p>University of Maryland Sept 2008 - May 2012 College Park, MD</p>	<p><b>M.S., Ph.D.</b> in Physics</p> <ul style="list-style-type: none"> <li>Research Topics: Biomimetics and self-assembly in meso-scale soft condensed matter systems</li> </ul> <p><b>B.Sc</b> Physics, <b>B.Sc</b> Mathematics</p> <ul style="list-style-type: none"> <li>Banneker-Key Scholar (top 1% of admitted students)</li> </ul>
<p><b>Skills &amp; Languages</b></p>	<p>Python, Image Analysis, Neural Networks (Keras/TensorFlow), Machine Learning, SQL, Spark, Web Scraping</p>
<p><b>Work Experience</b></p> <p>The Data Incubator October 2017 – Present</p> <p>Fast Forward Labs August 2017 – October 2017</p> <p>The Data Incubator March 2017 – May 2017</p> <p>New York University August 2013 – March 2017</p> <p>New York University University of Maryland January 2013 – December 2013 November 2009 – May 2012</p>	<p><b>Data Scientist in Residence</b></p> <ul style="list-style-type: none"> <li>Develop curriculum for courses ranging from introductory programming to advanced distributed computing and machine learning</li> <li>Guide students in lecture and discussion formats, in person and online, and manage web-based course administration applications</li> </ul> <p><b>Data Scientist (Contract)</b></p> <ul style="list-style-type: none"> <li>Programmed recurrent convolutional neural network for labeling laparoscopic colorectal surgery with relevant procedural labels</li> <li>Wrote research report for medical robotics client and presented findings at MICCAI 2017 conference</li> </ul> <p><b>Fellow</b></p> <ul style="list-style-type: none"> <li>Fellowship for academics transitioning into data science (2% admittance rate)</li> <li>Completed analytic miniprojects analyzing NYC restaurant health data, GBs of XML/text from Wikipedia and Stack Exchange, and web-scraped photo captions</li> </ul> <p><b>Research assistant</b></p> <ul style="list-style-type: none"> <li>Engineered self-assembling system of particles and demonstrated spontaneous formation of polymeric chains</li> <li>Developed image analysis tools for 3D video data (~ 50x 1GB videos)</li> <li>Vectorized existing codebase yielding 500x speedup</li> </ul> <p><b>Teaching assistant &amp; Tutor</b></p> <ul style="list-style-type: none"> <li>Taught introductory physics recitation and lab classes ranging from 4 to 20 students</li> <li>Engaged students with creative DIY projects (“learning-by-doing”)</li> <li>Designed individual and group exercises and assessments developing students’ mathematical literacy</li> </ul>