

# Zachary A. Monge

Ph.D. Candidate

Duke University

✉ zachary.monge@duke.edu | ☎ 732 · 546 · 1718 | 💻 [www.linkedin.com/in/zach-monge-79457b145/](https://www.linkedin.com/in/zach-monge-79457b145/)

---

## EDUCATION

2015-Present	<b>Duke University</b> , Durham, NC <b>Ph.D.</b> in Psychology & Neuroscience: Computational Cognitive Neuroscience
2015-2018	<b>Duke University</b> , Durham, NC <b>M.A.</b> in Psychology & Neuroscience: Computational Cognitive Neuroscience
2009-2013	<b>Boston University</b> , Boston, MA <b>B.A.</b> in Biology with a specialization in Neurobiology; Psychology with Honors Graduate with Latin Honors (Cum Laude); Dean's List (6 semesters)

**SUMMARY OF SKILLS:** I am a PhD student at Duke University. I have a strong background and interest in using data and advanced statistical procedures (e.g., deep learning, machine learning methods) to solve problems. Please visit my [blog](#) and [GitHub](#) for examples of my work.

## REPRESENTATIVE EXPERIENCES

<b>Duke University</b> <i>Ph.D. Candidate</i>	<b>Durham, NC</b> <i>8/2015 – Present</i>
<ul style="list-style-type: none"><li>• Use deep learning (e.g., deep convolutional neural networks, recurrent neural networks) and other machine learning methods (e.g., random forests) to map functional MRI brain activation patterns.</li><li>• Collect, process, analyze, interpret, present/write results of large datasets (millions of data-points).</li><li>• Code within Python, MATLAB, and bash on a daily basis.</li><li>• Creating/managing lab-wide relational database using SQL.</li><li>• Led multiple projects and worked on interdisciplinary teams for several other projects.</li><li>• Publish peer-reviewed research; please see my <a href="#">Google Scholar page</a>.</li><li>• Present at national conferences, department events, and community events.</li><li>• Manage/mentor teams of undergraduate/post-bac research assistants and junior graduate students.</li><li>• Led multiple discussion sections, led project teams, and mentored students as a Teaching Assistant.</li></ul>	
<b>Towards Data Science</b> <i>Contributing Writer</i>	<b>Remote</b> <i>8/2018 – Present</i>
<ul style="list-style-type: none"><li>• Publish blog posts on machine learning/data science methods. See my blog <a href="#">here</a>.</li></ul>	
<b>Furniture East Inc.</b> <i>Programmer</i>	<b>Remote</b> <i>1/2018 – 5/2018</i>
<ul style="list-style-type: none"><li>• Provide programming assistance (Python) to automate inventory updates for an online furniture store.</li></ul>	
<b>University of Pennsylvania</b> <i>Clinical Research Assistant</i>	<b>Philadelphia, PA</b> <i>7/2013 – 8/2015</i>
<ul style="list-style-type: none"><li>• Collect, process, analyze, interpret, present results of large datasets (millions of data-points).</li><li>• Managed analysis team and collaborated with interdisciplinary teams including PhDs, MDs, and nurses.</li></ul>	

**TECHNICAL SKILLS:** Advanced statistical modeling, Amazon Web Services (AWS), Bash shell programming, computer vision, deep learning libraries (e.g., PyTorch, fastai), Google Cloud Platform, Linux, machine learning, MATLAB, natural language processing, Python (including numpy, pandas, scikit-learn, etc.), recommender systems, SAS, SPSS, SQL.