

# CLAYTON STANLEY

Google ♦ New York, NY  
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## EDUCATION

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- Rice University** *Jan 2015*  
Ph.D., Cognitive Psychology, emphasis in modeling large-scale human behavioral datasets  
Thesis short title: Comparing vector-based and ACT-R memory models using large-scale datasets  
Advisor: Dr. Michael D. Byrne, Overall GPA: 3.9
- United States Air Force Academy** *May 2007*  
B.S., Applied Physics, emphasis in computational methods  
Distinguished Graduate, Overall GPA: 3.8

## AWARDS

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- John W. Gardner Award, Best dissertation in the social sciences, Rice University *2015*
- United States Air Force Commendation Medal for exceptional leadership *2012*
- Kenneth R. Laughery Award, Best masters thesis in psychology, Rice University *2009*
- Outstanding cadet in applied physics, United States Air Force Academy *2007*
- Won cadet inter-service computer programming competition, USAFA *2007*

## EXPERIENCE

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- Google, GSuite Apps** Mar 2019 - Present  
*Quantitative UX Researcher* *New York, NY*
- Uncovering insights from user log data to improve the design of Google Docs, Slides, and Sheets.
- Bloomberg LP, UX Design** Jan 2015 - Mar 2019  
*UX Data Scientist* *New York, NY*
- Uncovered insights from user logs to improve the design of the Terminal (>100 quant research projects).
  - Worked with engineering to build a centralized analytics platform (>10 infrastructure usage datasets).
  - Worked with engineering to improve and expand current instrumentation (>100 new user actions).
  - Worked with engineering to improve self-service analytics tools for others (>100 people onboarded).
  - Worked with user experience researchers to design and analyze >5 quantitative experimental studies.
- Rice University, Computer Human Interaction Laboratory** May 2012 - Aug 2012  
*Research Programmer* *Houston, TX*
- Migrated 50K lines of Macintosh Common Lisp (MCL) GUI code to Clozure Common Lisp (CCL). Implemented subset of the MCL GUI specification in CCL, so that CCL could run original MCL code.
  - Consequently, provided a 10-100x speedup in code run time, and allowed modelers to use the newest OS X operating system and improved IDEs during development.
- Air Force Research Laboratory, Cognitive Models and Agents** May 2009 - May 2012  
*Cognitive Scientist and Software Engineer* *Dayton, OH*
- Enabled Teraflops of free computing power for the AF. Developer for the net-centric MindModeling volunteer computing research project. Part of core dev team that redesigned and reimplemented the entire system between 2010-2011. Systems-level project. 10,000+ SLOC. 10+ programming languages.
  - Led first organization in AFRL headquarters to certify and connect to the Defense Research Engineering Network (DREN).
  - Wrote a system-hardening tool for Linux and OS X to certify machines for the DREN.

## MEMBERSHIP & SERVICE

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- Active contributor to StackOverflow community
- US Air Force Active-Duty Commissioned Officer

*Jun 2011 - Present*  
*30 May 2007 - 31 May 2012*

## TECHNICAL STRENGTHS

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<b>Behavioral/Physical Modeling</b>	mathematical, statistical, cognitive simulations using Atomic Components of Thought-Rational (ACT-R)
<b>Relevant Coursework</b>	<i>Statistics</i> : logistic/linear/nonlinear/multivariate regression <i>Mathematics</i> : partial differential equations, discrete math <i>Psych</i> : engineering psychology, human factors, decision making <i>CS</i> : artificial intelligence, programming paradigms
<b>Computer Languages</b>	R, bash, make, SQL, common lisp
<b>Programming Paradigms</b>	macros, anaphoric/read/compile macros, DSL programming, closures, object oriented, functional, imperative, declarative, code parallelization, vectorization, and optimization
<b>HPC Technologies</b>	hadoop, hive, splunk, postgres, DOD supercomputers
<b>Tools</b>	linux, docker, git, vim, data.table, python
<b>Visualization Tools</b>	ggplot2, tableau, d3
<b>Team Processes</b>	agile, scrum, daily standups, retrospectives, code reviews, bug tracking, pair debugging, test-driven development