JESSE N. DUNIETZ

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EDUCATION

Carnegie Mellon University (CMU) *Ph.D. in Computer Science, 2011–2018*
Massachusetts Institute of Technology (MIT) *B.S. in Computer Science, June 2011*
University of Cambridge *1-year exchange program from MIT (2009–2010)*

WRITING, COMMUNICATION, & TEACHING EXPERIENCE

Scientific American, Washington, D.C.: *AAAS Mass Media Fellow* *June–Aug. 2017*
- Wrote and reported 11 in-depth pieces for *Scientific American*'s news website and print "Advances" section

Nautilus, Popular Mechanics, Scientific American, & others: *Freelance writer* *Aug. 2013–Dec. 2016*
- Wrote freelance online articles about computer science (full list at jesseduniet z.contently.com)

Public Communication for Researchers (PCR), CMU, Pittsburgh, PA: *President* *June 2012–Dec. 2016*
- Founded/developed student group that has trained hundreds of CMU students in public communication
- Co-taught workshops for CMU students, CMU faculty, U. of Pittsburgh, Phipps Conservatory, & others
- Worked with the CMU administration to establish long-term administrative support for the program

CMU, Pittsburgh, PA: *Teaching Assistant* *Aug. 2013–May 2016*
- Handled problem sets and exams, office hours, and occasional lectures/recitations for three AI courses

ComSciCon National Conference, Cambridge, MA: *Organizing Committee* *Sept. 2013–June 2015*
- Found and invited speakers; planned/ran science communication programming for graduate students

MIT, Cambridge, MA: *Course Instructor* *Nov. 2010–Jan. 2011, Nov. 2008–Jan. 2009*
- Co-developed & co-taught for-credit intro C++ course (available on MIT OpenCourseWare as "6.096")

RESEARCH & ENGINEERING EXPERIENCE

CMU, Pittsburgh, PA: *Ph.D. Student (Natural Language Processing)* *June 2011–Jan. 2018*
- Created annotation scheme to represent causal relationships expressed in text, with associated corpus
- Developed techniques for tagging text with causal language scheme, including a deep learning model

Google, Mountain View, CA: *Software Engineering Intern* *June–Aug. 2011; May–Aug. 2013*
- Developed novel machine learning model for rating named entities' centrality within a document
- Explored novel features for the model, including techniques based on Google's "Knowledge Graph"

MIT (Genesis Group), Cambridge, MA: *Undergraduate Researcher* *Sept. 2010–May 2011*
- Incorporated "structure mapping" analogy algorithm into story-processing system for comparing stories

SLAC National Accelerator Lab, Stanford, CA: *DOE "SULI" Intern* *June–Aug. 2010*
- Built a software framework to help high-energy physicists analyze experiments (bit.ly/pydecay)

AWARDS, HONORS, & MEMBERSHIPS

CMU Graduate Student Service Award *2015*
Member of Tau Beta Pi (TBP) and Eta Kappa Nu (HKN) Honor Societies *Inducted in 2011*

SKILLS

Communication:
- Strong presenter/speaker, honed via running PCR (see above), research presentations, and teaching
- Adept at sharing complex ideas with diverse audiences (from PCR, other workshops, science writing)
- Clear, concise writer

Leadership:
- Strong ability, honed via PCR, to build consensus, guide discussions to next steps, & mediate conflicts

Software development:
- Experienced software engineer; at home in C/C++, Python, Java, JavaScript, HTML/CSS, Bash, & others