

# Bill MacCartney

CONTACT	Email: <a href="mailto:wcmac@cs.stanford.edu">wcmac@cs.stanford.edu</a> Phone: 415-742-1185	Web: <a href="http://nlp.stanford.edu/~wcmac/">http://nlp.stanford.edu/~wcmac/</a> Code: <a href="https://github.com/wcmac/">https://github.com/wcmac/</a>
EXPERTISE	Natural language processing (NLP), machine learning, user modeling, personalization.	
EXPERIENCE	<p><b>Director, Proactive Intelligence</b>, Apple, 2016-present Leading 120+ scientists and engineers in developing models for predicting user intentions and actions. Directing teams for QuickType, QuickPath, Shortcuts, Siri Suggestions, and Siri Found In features.</p> <p><b>Consulting Professor of Computer Science</b>, Stanford University, 2010-present Teaching <i>CS224U: Natural Language Understanding</i>, a grad-level class with 250+ students.</p> <p><b>Managing Director</b>, BlackRock, 2015-2016 Built and led a research team in applying NLP and machine learning to quantitative investing.</p> <p><b>Senior Research Scientist</b>, Google, 2010-2015 Developed statistical models for natural language understanding (NLU) in Google Now and Search. Created model for interpreting local and directions queries (15% of voice queries, 10+ languages). Co-founded team to build Google's first cross-product user model. Grew team to 50+ in one year.</p> <p><b>Senior Research Scientist</b>, Aardvark, 2009-2010 Developed models and algorithms for semantic analysis of text. Startup was acquired by Google. Co-authored patent US8935192, "Social search engine".</p> <p><b>Co-founder &amp; VP Production</b>, SayIt, 1999-2000 Co-founded web startup focused on user-generated creative content. Raised \$5.3M from Softbank. Assembled team of 35 in one year. Built website in four months. Top 250 by traffic in first year.</p> <p><b>Quant/Trader</b>, D. E. Shaw &amp; Co., 1996-1998 Developed and executed quant trading strategies. Built computational models for trade analysis. Held primary responsibility for Japan fixed income portfolio: JGBs, futures, swaps, derivatives.</p>	
EDUCATION	<p><b>Stanford University</b>, Stanford, California Ph.D. in Computer Science. Focus in artificial intelligence (AI) and natural language processing. Published 12+ NLP research papers. Cited 3,600+ times. Won Best Paper Award at COLING-08. Co-authored the Stanford typed dependency parser, which has been cited 2,400+ times.</p> <p><b>J. W. Goethe Universität</b>, Frankfurt, Germany Awarded Fulbright scholarship for graduate work in philosophy of language. Mastered German.</p> <p><b>Princeton University</b>, Princeton, New Jersey B. A. in Philosophy. Focus in philosophy of language, philosophy of mathematics, formal logic. Graduated <i>summa cum laude</i>. GPA: 4.0 in major, 3.9 overall. GRE: 800/800/800. LSAT: 180.</p>	
SKILLS	Able to attract, retain, and inspire top machine learning and NLP researchers and engineers. Adept in Python, Java, Scala, C++, Ruby, Lisp, Perl, bash, SQL, HTML, L <sup>A</sup> T <sub>E</sub> X, ... Currently studying Cantonese. Proficient (if a bit rusty) in German and French.	