

# Chris Mattmann



## Associate Chief Technologist, NASA JPL

Chris Mattmann is the Associate Chief Technologist and Innovation Officer in the Office of the Chief Technology and Innovation. Mattmann manages the IT Advanced Research and Open Source Projects Office and the NSF and Open Source Applications Office. Mattmann was formerly a member of the Engineering Administrative Office and formerly Chief Architect of the Instrument and Science Data Systems Section at NASA JPL with the responsibility for influencing science data system designs and facilitating the infusion of new technologies to meet our future challenges. Dr. Mattmann is also JPL's first Principal Scientist in the area of Data Science. He has over 18 years of experience at JPL and has conceived, realized and delivered the architecture for the next generation of reusable science data processing systems for NASA's Orbiting Carbon Observatory, NPP Sounder PEATE, and the Soil Moisture Active Passive (SMAP) Earth science missions. Mattmann's work has been funded by NASA, DARPA, DHS, NSF, NIH, NLM and by private industry. Mattmann was the first Vice President (VP) of Apache OODT (Object Oriented Data Technology), the first NASA project to enter the Apache Software Foundation (ASF) and he led the project's transition from JPL to the ASF.

He contributes to open source as a Director at the Apache Software Foundation where he was one of the initial contributors to Apache Nutch as a member of its project management committee, the predecessor to the Apache Hadoop project. Mattmann is the progenitor of the Apache Tika framework, the digital "babel fish" and de-facto content analysis and detection framework that exists.

Mattmann is the Director of the Information Retrieval & Data Science (IRDS) group at USC and Adjunct Associate Professor. He teaches graduate courses in Content Detection & Analysis & in Search Engines & Information Retrieval. Mattmann has materially contributed to understanding of the Deep Web and Dark Web through the DARPA MEMEX project. Mattmann's work helped uncover the Panama Papers scandal.