

Brian P. Gerkey

CEO

Open Robotics

CONTACT

170 S Whisman Rd
Building D, Suite A
Mountain View, CA 94041
tel: 650.450.9682
gerkey@openrobotics.org

EDUCATION

PhD, Computer Science, University of Southern California, Aug 2003. Dissertation advisor: Prof. Maja J Matarić. Dissertation: *On Multi-Robot Task Allocation*.

M.S., Computer Science, University of Southern California, May 2000.

B.S.E., Computer Engineering, magna cum laude, departmental honors, Tulane University, May 1998. Thesis advisor: Prof. James S. Jennings. Honors thesis: *Task Allocation for Heterogeneous Robots*. Secondary major in Mathematics. Minor in Robotics & Automation.

EXPERIENCE

Jul 2012– : *CEO*, Open Robotics.

Apr 2009–May 2012: *Director of Open Source Development*, Willow Garage.

Feb 2008–Apr 2009: *Research Scientist*, Willow Garage.

Jul 2005–Feb 2008: *Computer Scientist*, SRI Artificial Intelligence Center.

Aug 2003–Jun 2005: *Postdoctoral Scholar*, Stanford University Artificial Intelligence Laboratory. Advisor: Prof. Sebastian Thrun.

Jun 2003–Jul 2003: *Postdoctoral Research Fellow*, University of Southern California Robotics Research Laboratory. Advisor: Prof. Maja J Matarić.

Aug 1998–May 2003: *Research Assistant*, University of Southern California Robotics Research Laboratory. Advisor: Prof. Maja J Matarić.

May 1999–Aug 1999: *Member of Technical Staff*, Artificial Intelligence Group, Jet Propulsion Laboratory, Pasadena, California. Supervisor: Dr. Tara Estlin.

Nov 1996–May 1998: *Research Assistant*, Tulane University Mobile Robot Laboratory. Advisor: Prof. James S. Jennings.

BOOK

Morgan Quigley, **Brian P. Gerkey**, and William D. Smart. *Programming Robots with ROS*, O'Reilly Media, Dec 2015.

JOURNAL ARTICLES

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Carlos E. Agüero, Nathan Koenig, Ian Chen, Hugo Boyer, Steven Peters, John Hsu, **Brian P. Gerkey**, Stephanie Paepcke, Jose Luis Rivero, Justin Manzo, et al. Inside the virtual robotics challenge: Simulating real-time robotic disaster response. *IEEE Transactions on Automation Science and Engineering*, 12(2):494–506, 2015.

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Brian P. Gerkey and Maja J Matarić. A formal analysis and taxonomy of task allocation in multi-robot systems. *Intl. Journal of Robotics Research* 23(9):939–954, Sep 2004.

Brian P. Gerkey and Maja J Matarić. Sold!: Auction methods for multi-robot coordination. *IEEE Transactions on Robotics and Automation*, 18(5):758–768, Oct 2002.

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Davide Brugali, Gregory S. Broten, Antonio Cisternino, Diego Colombo, Jannik Fritsch, **Brian P. Gerkey**, Gerhard Kraetzschmar, Richard Vaughan, and Hans Utz. Trends in Robotic Software Frameworks, In Davide Brugali, editor, *Software Engineering for Experimental Robotics*, pages 259–266, Springer Tracts on Advanced Robotics, Springer, 2007.

CONFERENCE PAPERS

Mark Allan, Ian Chen, Morgan Quigley, Uland Wong, Scott McMichael, Steven Peters, Mark Shirley, P. Michael Furlong, Terry Welsh, **Brian P. Gerkey**, Matthew Deans, Howard Cannon, and Terry Fong. Planetary Rover Simulation for Lunar Exploration Missions. In

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Wim Meeussen, Melonee Wise, Stuart Glaser, Sachin Chitta, Conor McGann, Patrick Michelich, Eitan Marder-Eppstein, Marius Muja, Eruhimov, Victor, Tully Foote, John Hsu, Radu Bogdan Rusu, Bhaskara Marthi, Gary Bradski, Kurt Konolige, **Brian P. Gerkey**, and Eric Berger. Autonomous Door Opening and Plugging In with a Personal Robot. In *Proc. of the IEEE Intl. Conf. on Robotics and Automation (ICRA)*, Anchorage, Alaska, May 2010.

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WORKSHOP PAPERS

Conor McGann, Eric Berger, Jonathan Bohren, Sachin Chitta, **Brian P. Gerkey**, Stuart Glaser, Bhaskara Marthi, Wim Meeussen, Tony Pratkanis, Eitan Marder-Eppstein, and Mel-onee Wise. Model-based, Hierarchical Control of a Mobile Manipulation Platform. In *Proc. of the ICAPS Workshop on Planning and Plan Execution for Real-World Systems*, Thessaloniki, Greece, Sep 2009.

Morgan Quigley, Ken Conley, **Brian P. Gerkey**, Josh Faust, Tully Foote, Jeremy Leibs, Rob Wheeler, and Andrew Y. Ng. ROS: an open-source Robot Operating System. In *Proc. of ICRA Workshop on Open Source Software*, Kobe, Japan, May 2009.

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INVITED PAPERS

Chris Jones, Dylan Shell, Maja J Matarić, and **Brian P. Gerkey**. Principled Approaches to the Design of Multi-Robot Systems. In *Proc. of the Workshop on Networked Robotics, IEEE/RSJ Intl. Conf. on Intelligent Robots and Systems (IROS)*, Sendai, Japan, Sep 2004.

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TECHNICAL REPORTS

Ashley Tews, Maja J Matarić, Gaurav S Sukhatme, and **Brian P. Gerkey**. “G’day Mate. Let me Introduce you to Everyone: An Infrastructure for Scalable Human-System Interaction”. Technical Report CRES-02-004, Center for Robotics and Embedded Systems, School of Engineering, University of Southern California, Sep 2002.

Brian P. Gerkey, Kasper Støy, and Richard T. Vaughan. “Player robot server”. Technical Report IRIS-00-392, Institute for Robotics and Intelligent Systems, School of Engineering, University of Southern California, Nov 2000.

UNREFEREED PAPERS

Brian P. Gerkey and Maja J Matarić. Are (explicit) multi-robot coordination and multi-agent coordination really so different? In *Proc. of the AAAI Spring Symp. on Bridging the Multi-Agent and Multi-Robotic Research Gap*, pages 1–3, Palo Alto, California, Mar 2004.

Brian P. Gerkey and Maja J Matarić. A market-based formulation of sensor-actuator network coordination. In *Proc. of the AAAI Spring Symp. on Intelligent Embedded and Distributed Systems*, pages 21–26, Palo Alto, California, Mar 2002.

THESES

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Brian P. Gerkey. Task Allocation for Heterogeneous Robots. Undergraduate honors thesis, Department of Electrical Engineering and Computer Science, Tulane Univ., New Orleans, Louisiana, May 1998.

PERSONAL

Citizenship: USA