

Adam Jacob Purdy  
1457 Park Ave. Long Beach, CA 90804  
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*Education:*

University of California, Irvine  
MS Earth System Science 2014  
PhD Earth System Science (Expected 2018)

California State University of Monterey Bay  
MS Coastal Watershed Science and Policy

University of San Diego  
BA & BS Industrial and Systems Engineering

*Student involvement & Awards:*

Tau Beta Pi, Engineering Honor Society  
Member of AGU 2010-Present  
2016-2017 NASA Earth System Science Fellowship  
2015 University of California, Irvine Public Impact Honorable Mention Fellow  
2014-2015 Earth System Science Graduate Student Representative

*Relevant Graduate Level Coursework*

Remote Sensing, Environmental Modeling, Advanced GIS, Hydrology, Terrestrial Hydrology, Watershed Systems, Research Methods, Data Analysis, Land Surface Processes, Operations Research

*Technical Skills:* Proficient in MATLAB, Python, R, ESRI ArcMap 10, Erdas Imagine  
Competent with C++, HEC-HMS, HEC-RAS

*Scientific Field Campaigns:*

SMAP-Ex 5 2015: Soil Moisture Active Passive Calibration & Validation. Murrumbidgee River, Australia  
TOP-SIMS 2010-2012: Satellite irrigation management support project. Central Valley and Salinas Valley, California.

*Papers*

**Purdy, A.J.**, Fisher, J, Goulden, M., Famiglietti, J.S., SMAP soil moisture and OCO-2 solar induced fluorescence to characterize evapotranspiration stress and improve PT-JPL ET . In prep.

**Purdy, A.J.**, Fisher, J, Goulden, M., Famiglietti, J.S., Ground Heat Flux: an analytical review of 7 models evaluated at 89 sites and globally. In prep.

Massoud, E.C., **Purdy, A.J.**, Miro, Michelle, Famiglietti, J.S., Vrugt, J., Assessing groundwater sustainability in California's Central Valley- An empirical method to estimate groundwater depletion and recharge. In prep

Castle, S., Thomas, B., Reager, J.T., **Purdy, A.J.**, Lo, M., Famiglietti, J.S., 2016. Remote detection of water management impacts on evapotranspiration in the Colorado River Basin. doi 10.1002/2016GL068675.

Melton, F.S., Johnson, L.F., Lund, C.P., Pierce, L.L., Michaelis, A.R., Hiatt, S.H., Guzman, A., Adhikari, D.D., **Purdy, A.J.**, Rosevelt, C., Votava, P., Trout, T.J., Temesgen, B., Frame, K., Sheffner, E.J., Nemani, R.R., (2012), Satellite irrigation management support with the terrestrial observation and prediction system: a framework for integration of satellite and surface observations to support improvements in agricultural water resource management. IEEE Journal of Selected Topics in Applied Earth Observation and Remote Sensing 5(6): 1709-1721

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### *Presentations*

**Purdy, A.J.**, Fisher, J, Famiglietti, J.S., Ground Heat Flux: What's the best approach. *Oral Presentation AGU Fall 2015*

**Purdy, A.J.**, Famiglietti, J.S. (2013). Remote sensing and modeling evapotranspiration: A high-resolution multi-method comparison at point and basin scales in California. *Oral Presentation AGU Fall 2013*

**Purdy, A.J.**, Lund, C.P., Pierce, L., Melton, F.S., Guzman, A., Harlen, I., Holloway, R., Johnson, L., Lee, C., Nemani, R. (2011). Applications of wireless sensor networks, soil water balance modeling, and satellite data for crop evapotranspiration monitoring and irrigation management support. *Poster AGU Fall 2011*

### *Work Experience:*

September 2013- Present

University of California, Irvine

Irvine, CA

Teaching assistant for Hydrology, Earth and Environmental Science, Regional Environmental Issues, On Thin Ice, and Data Analysis classes. Created reading curriculum, organized weekly discussions, managed class projects, prepared exams, and graded.

December 2010 – August 2012

NASA-CSUMB

Seaside, CA

Graduate research assistant for the Satellite Irrigation Management Support(SIMS) project. Installed and maintained wireless soil moisture sensor networks to calculate field scale water budgets. Set up surface renewal flux towers to measure Latent Heat in multiple agricultural fields. Processed soil moisture data. Attended meetings with agricultural growers and field managers to communicate how potential evapotranspiration and soil moisture data can assist irrigation management.

Spring 2011

CSUMB

Seaside, CA

Teaching assistant and tutor for Physics 221: Electricity and Magnetism. Assist students with lab experiments. Responsibilities include presenting answers to daily quizzes and grading lab reports. Tutor students in Physics 220: Statics and Mechanics & Physics 221. State certified tutor through Academic Skills and Achievement Program at CSUMB.

### *Contacts*

<i>Name</i>	<i>Organization</i>	<i>Phone number</i>	<i>Email</i>
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Joshua Fisher	NASA-JPL	323-540-4569	jbfisher@jpl.nasa.gov
Christopher Lund	Decagon / NASA-CSUMB	415-845-7447	cplund@gmail.com
Forrest Melton	NASA-CSUMB	831-582-4195	forrest.s.melton@nasa.gov