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Education and Training:

Institution	Major	Degree	Year
University of California, Davis	International Agriculture	B.S.	1994
University of California, Davis	Ecology	Ph.D.	2003

Research and Professional Experience:

2015-present **Co-Director**, UC Water Security and Sustainability Research Initiative
2013–present **Director**, Center for Information Technology in the Interest of Society
2013–present **Member**, Sierra Nevada Research Institute, University of California, Merced
2013–present **Associate Proessor**, School of Engineering, University of California, Merced
2012–2013 **Adjunct Professor**, Department of Fish & Wildlife, University of Idaho
2011–2013 **Associate Research Professor**, Dept. of Environmental Science and Policy, University of California, Davis
2008-2013 **Executive Associate Director**, Center for Watershed Sciences, University of California, Davis
2005–2011 **Assistant Research Professor**, Dept. of Environmental Science and Policy, University of California, Davis
2003–2013 Center for Watershed Sciences, University of California, Davis
2003–2013 Dept. of Environmental Science and Policy, University of California, Davis

Publications:

1. Grantham, TE, **JH Viers**, PB Moyle. In Press. Systematic Screening of Dams for Environmental Flow Assessment and Implementation. BioScience.
2. Rheinheimer, DE and **JH Viers**. In Press. Combined Effects of Reservoir Operations and Climate Warming on the Flow Regime of Hydropower Bypass Reaches in California's Sierra Nevada. River Research & Applications.
3. Grantham, TE, **JH Viers**. 2014. 100 years of California's water rights system: patterns, trends and uncertainty. Patterns, trends and uncertainty in California water right allocations. Environmental Research Letters 9(8).
4. Null, SE and **JH Viers**. 2013. In Bad Water Years: Water Year Type Classification in Non-stationary Climates. Water Resources Research. 49(2), 1137-1148.
5. **Viers, JH**. 2011. Hydropower Relicensing and Climate Change. Journal of the American Water Resources Association. 47(4)655-661.
6. Rheinheimer, DE, **JH Viers**, J Sieber, M Kiparsky, VK Mehta. 2014. Simulating high elevation hydropower with regional climate warming in the west slope Sierra Nevada. ASCE Journal of Water Resources Planning and Management 140:714-723.
7. Null, SE, **JH Viers**, ML Deas, S Tanaka, JF Mount. 2013. Climate Warming in California's Sierra Nevada: Potential Water Temperature Impacts and Resiliency. Climatic Change.

8. Rheinheimer, DE, SM Yarnell, **JH Viers**. 2013. Hydropower Costs of Environmental Flows and Climate Warming in California's Upper Yuba River. River Research & Applications
9. **Viers, JH**, and DE Rheinheimer. 2011. A Review of Freshwater Conservation Options in California's Sierra Nevada with Climate Warming. Marine and Freshwater Research. 62(3): 266-278.
10. Yarnell, S, **JH Viers**, JF Mount. 2010. Ecology and Management of the Spring Snowmelt Recession. BioScience. 60(2): 114–127.

Synergistic Activities:

1. University of California Water Security and Sustainability Research Initiative 2015-2019
($3.2M) Co-Director on signature multi-campus initiative to provide expertise on water information for improved decision making within California institutions on infrastructure.
2. California Hydropower and Climate Change 2008-2013
($1.2M) Principal Investigator on California Energy Commission funded project to evaluate the impact of regional climate warming on hydropower generation, not limited to GCM downscaling, rainfall-runoff modeling, water resource optimization, and environmental policy analysis.
3. Cosumnes Research Group 3 2011-2016
($1.7M) Principal Investigator on California DFW funded project to monitor the ecosystem response of a combined process and horticultural based restoration of seasonal floodplains along the Cosumnes River. This project includes monitoring of groundwater, hydrology, geomorphology, soil nutrients, and aquatic ecosystems.
4. Nitrate in Groundwater 2010-2012
($1.7M) Co-Principal Investigator for a California Legislature mandated inquiry to establish the source, extent, magnitude and potential remediation of nitrate contamination of groundwater used for drinking water supply in the San Joaquin Valley, Tulare Lake Basin, and Salinas River watershed. It was the most comprehensive study on the subject and resulted in numerous changes to groundwater policy in California.
5. Cosumnes Research Group 2 2003-2006
($2.3M) Co-PI for CALFED funded project to examine the linkages between terrestrial and aquatic environments in the Cosumnes River watershed, specifically addressing large-river flooding and its effects on floodplain restoration. Novel outcomes included developing measures of riparian restoration success, methods for fusing high-spatial resolution data, and data mining for clustering flood expectancies with ecological meaningful variables.