

## Richard Kelly

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### OBJECTIVE

To help transform healthcare using powerful concepts from modern information science.

### SKILLS

*Platforms:* MS SQL Server/SSIS, Visual Studio, RStudio, git, Oracle, MySQL, SQLite, IBM Show-case, Tableau, Infosphere CDC, Talend Open Studio for Data Integration

*Languages:* T-SQL, R, PHP, Perl, Python, Haskell, Java, Javascript, Ruby, shell scripting

*Operating Systems:* Windows, Linux, macOS

### EXPERIENCE

*Data Engineer (Data Systems Analyst 4)*

March 2018 to present

UC Irvine Health, Orange, CA

Enterprise Data and Analytics

- Developed Quality Measure Platform based on OMOP CDM and Collibra. In production use calculating daily results for seven quality measurement projects.<sup>1</sup>
- Coordinated Quality Value Program Team to continuously improve code

*BI Developer (Programmer/Analyst III)*

March 2011 to March 2018

UCI Health Affairs, Orange, CA

Clinical Informatics

- Continued development of Physician Quality Reporting System solution
- Developed interface to Emmi Solutions (now Wolters Kluwer) patient engagement platform
- Converted legacy SQL Server DTS and SSIS packages to Talend Open Studio for Data Integration

*Athena Network Technical Project Coordinator*

March 2011 to present

University of California, Irvine, Irvine, CA

Department of Epidemiology, School of Medicine

- Developed interfaces between EMR, Radiology Information System, and Salesforce
- Developed local database for reporting and research
- Developed clinic data workflows, provided PC & mobile technical support
- Maintained legacy Cancer Genetics Research Information System
- Managed biospecimen collection migration to Forte OnCore
- *Awards:* 2013 ICTS Interdisciplinary Team Science Award

*Programmer/Analyst*

June 2009 to March 2011

Irvine Ranch Water District, Irvine, CA

Information Services

- Managed Tabware Enterprise Asset Management (EAM) upgrade and migration to browser-based clients
- Managed EAM integrations with custom financials, payroll, HR and other enterprise applications
- Provided end-user training, workflow optimization, and technical support

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<sup>1</sup>PRIME/QIP, QPP, TCPI, UDS, CAPG, and MSSP ACO

Director

2007 to present

Plug In America, Los Angeles, CA

- Led Executive Director search
- Migrated enterprise to Google Apps
- Managed pluginamerica.org website redesign in Drupal
- Set up corporate blog, Democracy In Action Customer Relationship Management system, and web/email server
- Developed custom PHP/MySQL Content Management System
- Prepared organizational strategic plan
- *Leadership*: Board President (2 years), Vice-President (2 years), Secretary (3 years)

## PROFESSIONAL TRAINING

<i>Health Informatics on FHIR</i> , Georgia Institute of Technology	2018
<i>Leading Healthcare Quality and Safety</i> , The George Washington University	2018
<i>Caboodle Data Model</i> , Epic Systems (self study)	2017
<i>Systematic Program Design - Part 1</i> , UBCx	2016
<i>Introduction to Functional Programming</i> , DelftX	2016
Xerox Total Quality Management	
MS SQL Server/Reporting Services/Integration Services	

## EDUCATION

<i>Bachelor of Science, Information and Computer Science</i>	1993
University of California at Irvine, Irvine, CA	

## PUBLIC SPEAKING

Athena Network retreats, presentations to utility agencies, California Air Resources Board, IRWD Earth Day, OEVA EV Awareness Day, Go Green Expo

## COMMUNITY SERVICE

Plug In America, ASES National Solar Tour

## PERSONAL

Married with two children, fluent Spanish, basic French, private pilot, amateur radio

## PUBLICATIONS

- [1] Kelly Richard. Quality Measurement Engine (QME) at UC Irvine Health
- [2] Park Hannah Lui, Acheampong Teofilia, Nguyen Kathleen, Nguyen Cindy, Ziogas Argyrios, Kelly Richard, Alvarez Andrea, Larsen Kathryn M., Goodman Deborah, Anton-Culver Hoda. Abstract 2599: Association of periodontal disease and breast health in women undergoing screening mammography *Cancer Research*. 2016;76:2599–2599.
- [3] Park Hannah Lui, Tran Stephanie M, Lee Jennifer K, Goodman Deborah, Ziogas Argyrios, Kelly Richard, Larsen Kathryn M, Alvarez Andrea, Tannous C., Strobe Julie, Lynch Wendy, Anton-Culver Hoda. Clinical Implementation of a Breast Cancer Risk Assessment Program in a Multi-ethnic Patient Population: Which Risk Model to Use? *The breast journal*. 2015;21 5:562-4.
- [4] Park Hannah Lui, Tran Stephanie M., Lee Jennifer, Goodman Deborah, Ziogas Argyrios, Kelly Richard, Larsen Kathryn M., Alvarez Andrea, Tannous Chris, Strobe Julie, Lynch Wendy, Anton-Culver Hoda. Abstract 3243: A pilot study comparing breast cancer risk scores using models with and without breast density among women of different race/ethnicities undergoing breast screening in the University of California, Irvine Athena Breast Health Network cohort *Cancer Research*. 2014;74:3243–3243.