

# **Doron Zinger, (he,him,his) Ph.D.**

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UC Irvine CalTeach Science and Math Program  
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## **WORK EXPERIENCE**

### ***Program Director, CalTeach STEM Preparation Program UC Irvine, Irvine CA, September 2018 – Present***

- Oversee 4-year STEM BS plus California Preliminary Credential program.
- Support, supervise, and evaluate program instruction and field based student supervision.
- Oversee and conduct research efforts geared at data informed programmatic decision making.
- Manage program budget, including identifying and seeking external funding.
- Liaise and communicate with CalTeach partners including the Schools of Education, Biological Sciences, and Physical Sciences.

### ***Lecturer, School of Education, UC Irvine, Irvine CA, August 2016-Present***

- Design curriculum and teach CalTeach STEM teacher preparation focused courses.
- Collaborate with other instructors on course design and implementation.
- Instructional focus on science and math methods courses.

### ***Lecturer, Graduate School of Education, CSU Dominguez Hills, Carson CA, May 2016-Aug 2018***

- Design curriculum and teach in the Master's of Teaching program focusing in technology in the classroom.

### ***Graduate Student Researcher, School of Education, UC Irvine, Irvine CA, July 2014-June 2018***

- Oversaw program implementation of a research activities.
- Gathered and analyzed data quantitatively and qualitatively across multiple projects.
- Liaised between university faculty, researchers, teachers, professional developers, and other team members across projects.
- Contributed to and wrote reports for projects.

### ***Director of Charter Schools, NOVA Academy, Santa Ana, CA, March 2011 – March 2014***

- Planned, implemented, and oversaw instructional program at two early college high schools.
- Planned, implemented, and oversaw budget and operations of schools.
- Oversaw state reporting including academic and fiscal areas.
- Provided site support for principals, teachers, and staff academically and operationally.
- Assumed the roles of interim/acting principal.
- Collaborated and communicated with the authorizing school districts and community.
- Trained, presented to, and collaborated with the schools' board.

### ***Science Teacher/Lead Teacher, NOVA Academy, Santa Ana, CA, Sept 2007 – February 2011***

- Taught: Biology, Honors Biology, Chemistry, Honors Chemistry, Earth Science, AP Environmental Science, Environmental Science, Health, Study Skills, and Web Design.
- Mentored and supervised three student teachers.
- Oversaw the school's 9<sup>th</sup> grade student transition summer bridge program.

## EDUCATION

### *Ph.D. in Education, August 2018, University of California, Irvine, Irvine, CA*

- Specializing in Teaching and Learning. Research focus: Teacher preparation and professional development in science, and learning through technology in underrepresented communities
- Dissertation title: The Realities and Possibilities of Fast-Track Teacher Preparation: A Longitudinal Case Study of Alternatively Certified Teachers' Learning and Instruction.
- Certificate in Teaching Excellence Program (CTEP)
- Course Design Certification
- Graduate Mentoring Excellence Program Certification

### *M.A. in Education, December 2017, University of California, Irvine, Irvine, CA*

- Master's thesis: Beginning science teachers' use of instructional resources in urban classrooms: Implications for teacher preparation.

### *M.A. in Education: Educational Administration, August 2012, California State University, Dominguez Hills, Carson, CA*

- Specializing in Charter and Autonomous School Leadership. Research focus: Instructional leadership and teacher capacity building
- Action research project: Improving teacher math instructional capacity and student outcomes

### *M.Ed. in Education, October 2010, National University, Costa Mesa, CA*

- Specializing in cross-cultural teaching
- Master's thesis: The impact of summer bridge programs on student academic achievement

### *B.S. in Biology, September 2002, University of California, Irvine, Irvine, CA*

- Conducted radiological research in the UCI nuclear reactor lab under Professor George Miller
- Conducted behavioral ecology research and managed aviary lab under Professor Nancy Burley

## GRANTS

National Science Foundation, Robert Noyce Teacher Scholarship Program grant number 1950008 (2020-2025), Transfer to Teaching: Accelerated STEM Teacher Preparation from Community College to Credentialing. \$1,195,722

Department of education, Developing Hispanic-serving institutions program grant number P031S180094 (2018-2023), UCI Teacher Preparation Expansion and Enhancement for Developing Effective and Equity-focused Educators. Project co-director. \$2,110,000

## PUBLICATIONS

**Zinger, D.,** Haymore Sandholtz, J., & Ringstaff, C., (2020). Teaching Science in Rural Elementary Schools: Affordances and Constraints in the age of NGSS. *The Rural Educator*, 41(2), 14-30.

- Zinger, D.**, Shanahan, T., & Houston, K., (2020). Promoting Early Career Teacher Resilience Through a CalTeach Preparation Program In J. Goodell, & S. Koc (Eds.) *Preparing STEM Teachers: The UTeach Replication Model*. Charlotte, NC: Information Age Publishing
- Kang, H., **Zinger, D.**, (2019). What do core practices offer in preparing novice science teachers for equitable instruction? *Science Education*, 103(4), 823-853
- Zinger, D.**, Krishnan, J., Gilbertson, N., Harris, K., (2019). Leading teacher professional learning: Shared language for shared goals. In A. Normore, L. Long, & M. Javidi (Eds.) *Handbook of Research on Strategic Communication, Leadership, and Conflict Management in Modern Organizations*.
- Zinger, D.**, Krishnan, J., & Warschauer, M. (2018). Bridging student digital divides by bridging teacher digital divides. In A. Normore, & A. Issa Lahera (Eds.) *Crossing the Bridges of the Digital Divide: A Walk with Global Leaders*. (pp. 127-144) Charlotte, NC: Information Age Publishing
- Zinger, D.**, Naranjo, A., Gilbertson, N., Amador, I.\*, & Warschauer, M., (2017). A design-based research approach to improving professional development of the Smithsonian Learning Lab. *Contemporary Issues in Technology and Teacher Education*, 17(3)
- Zinger, D.**, Tate, T., & Warschauer, M., (2017). Learning and teaching with technology: Technological pedagogy and classroom practice. In J. Candinin, & J. Husu (Eds.) *The SAGE Handbook of Research on Teacher Education*. (pp. 577-593) London, UK: SAGE.
- Zinger, D.** & Normore, A. (2016). The STEM lab school: Providing support for teacher candidates in alternative certification programs. *Journal of Authentic Leadership in Education*, 5(2), 2-5.
- Zinger, D.** (2016). Developing instructional leadership and communication skills through online professional development: Focusing on rural and urban principals. In A. Normore, L. Long, & M. Javidi (Eds.) *Handbook of Research on Effective Communication, Leadership, and Conflict Resolution* (pp. 354-370). Hershey, PA: Information Science Reference.
- Issa Lahera, A., **Zinger, D.**, Mendoza, M., & McMannus, H. (2015). Developing authentic non-traditional principals to lead underserved student populations: The case of charter and autonomous school leadership academy. *Journal of Authentic Leadership in Education*, 4(2), 4-9.

\* Denotes undergraduate or post-baccalaureate mentee coauthor

### CONFERENCE PRESENTATIONS (Select)

- Zinger, D.**, Kang, H., (April 2020) *The Realities and Possibilities of Learning to Teach in an Early-Entry, Summer Teacher Preparation Program*. To be presented at the annual meeting for the American Education Research Association, San Francisco, CA. (Conference canceled)
- Krishnan, J., **Zinger, D.**, Sandholtz, J., & Ringstaff, C. (April, 2020) *The NGSS Era: Teachers' Self-Efficacy for Science Instruction in Rural Schools*. To be presented at the annual meeting for the American Education Research Association, San Francisco, CA. (Conference canceled)
- Zinger, D.**, Houston, K., (2019, May). *Persisting Through Challenges: How CalTeach Preparation Supports*

*Early Career Teacher Resilience*. CalTeach Annual Symposium, San Diego, CA.

- Zinger, D.**, Hatanaka, R., & Quach, S., (2018, April). *Museum-Generated Digital Resource Metadata: Implications for Teacher Educators*. Poster presented at the American Educational Research Association annual meeting, New York, NY.
- Zinger, D.**, Avendaño, L., & Salazar, A. (2018, February). *Negotiating the tensions and challenges of university and school partnerships*. Presented at the Southern California Professional Development Schools annual conference, California Lutheran University, Thousand Oaks, CA.
- Zinger, D.** (2017, October). *Building community with teachers to promote learning through shared language. In session: Community Based Scholarship: Activism On and Off the Field*. Presented at the Digital Media and Learning Conference, University of California, Irvine.
- Zinger, D.** & Kang, H. (2017, April). *Restoring opportunities to learn in urban science classrooms with well-prepared beginners*. Paper presented at the American Educational Research Association annual meeting, San Antonio, TX.
- Zinger, D.**, Naranjo, A., Gilbertson, N., Amador, I., & Warschauer, M., (2017, April). *A design-based research approach to improving professional development of the Smithsonian Learning Lab*. Paper presented at the American Educational Research Association annual meeting, San Antonio, TX.
- Zinger, D.**, van Es, E. A., & Hughes, B. (2017, April). *Improving a large-scale science professional development through a design based research approach*. Paper presented at the American Educational Research Association annual meeting, San Antonio, TX.
- Kang, H. & **Zinger, D.** (2017, April). *Promoting rigorous and responsive science teaching with well-prepared beginners*. Paper presented at the American Educational Research Association annual meeting, San Antonio, TX.
- Carr, C., Mendoza, M., & **Zinger, D.** (2017, April). *Developing social justice oriented principals and assistant principals*. Paper presented at the American Educational Research Association annual meeting, San Antonio, TX.
- Gilbertson, N., Harris, K., **Zinger, D.**, & Warschauer, M. (2017, April). *Promoting historical thinking: Lessons from teachers' use of the Smithsonian Learning Lab*. Paper presented at the American Educational Research Association annual meeting, San Antonio, TX.
- Hughes, B., Kalinowski, R., Greenfader, C., **Zinger, D.**, Grove, D., Bailey, D., & Ray, A. (2017, April). *Evaluating a large-scale teaching intervention employing arts-integrated instruction*. Paper presented at the American Educational Research Association annual meeting, San Antonio, TX.
- Zinger, D.**, Hamdan, K., & Normore, A. (2017, February). *Transition-To-Teaching Lab School: An innovative initiative for high needs urban schools*. Presented at the Southern California Professional Development Schools annual conference, California State University, Channel Island, Camarillo, CA.
- Zinger, D.**, Gilbertson, N., Amador, I., & Warschauer, M. (2016, October). *Bringing the museum to the classroom digitally: A professional development collaboration between museums, teachers, and researchers*. Presented at the Digital Media and Learning Conference, University of California, Irvine.

**Zinger, D.** (2016, October). *Relationships, relevance, rigor: Engaging urban students in science and math*. Presented at STEM in Education conference, California State University Dominguez Hills.

**Zinger, D.** (2016, April). *Improving professional development: Just listen*. Presented at the Associated Graduate Students symposium, University of California, Irvine.

Hughes R., Kalinowski B., **Zinger D.**, Ray A., Grove D., & Bailey D. (2016, April). *Improving science instruction through integrating the arts*. Paper presented at the National Association for Research in Science Teaching, annual meeting, Baltimore, MD.

**Zinger, D.**, van Es, E. A., & Hughes, B. (2016, April). *Professional development informing practice and practice informing professional development: An iterative improvement approach*. Paper presented at the American Educational Research Association annual meeting, Washington, DC.

**Zinger, D.** (2015, October). *Developing student scientific inquiry through discourse*. Presented at STEM in Education conference, California State University Dominguez Hills.

**Zinger, D.** (2015, April). *Engaging elementary school students through the arts and inquiry to improve scientific learning*. Presented at the Associated Graduate Students Symposium, University of California, Irvine.

Deconinck, A., Rutti, D., & **Zinger, D.** (2014, July). *Equipping and getting materials for your science classroom*. Presented at STEM in Education conference, California State University Dominguez Hills.

Craig, E. & **Zinger, D.** (2014, January). *Charter school issues*. Presented at the Statewide Collaboration Early & Middle Colleges & Dual Enrollment Programs Conference, Irvine, CA.

**Zinger, D.** (2013, July). *Getting and keeping the right people at your school*. Presented at the Education Moving Ideas Conference, California State University Dominguez Hills.

**Zinger, D.** (2011, February). *The challenges of new middle college administrators*. Middle College National Consortium winter conference, Newport Beach, CA.

## OTHER PUBLICATIONS AND PRESENTATIONS

**Zinger, D.** (2019). CalTeach student success at UCI. *The Voice of Hispanic Higher Education*, 28(4), 19

**Zinger, D.** (2019, October) Change Agents, hosted by Oswaldo Diaz, KUCI, Irvine (Hour-long radio interview)

## HONORS & AWARDS

- Lecturer Professional Development Award (recipient), UC Irvine, (\$472), 2020
- Diverse Educational Community and Doctoral Experience Student Travel Award (recipient), UC Irvine, Graduate Division (\$1000), 2018
- School of Education Graduate Student Service Award (recipient), UC Irvine Associated Doctoral Students in Education (ADSE), 2016
- Campus wide Graduate Student Service Award (nominee) UC Irvine Associate Graduate Students (AGS), 2016

- National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) Honorable Mention, STEM Education, *Improving STEM professional development through a school-based contextual intervention*, 2015

## UNIVERSITY TEACHING EXPERIENCE

### *Instructor, University of California, Irvine, Irvine, CA, August 2016 – Present*

- EDUC 148: Complex Pedagogical Design
  - Spring 2020: Mean evaluation score 4.4 (out of 5, remote due to COVID-19)
- EDUC 143AW: Classroom Interactions I
  - Winter 2019: Mean evaluation score 3.8 (out of 5, partially remote due to COVID-19)
- EDUC 143BW: Classroom Interactions II
  - Fall 2019: Mean evaluation score 4.1 (out of 5)
- EDUC 148: Complex Pedagogical Design
  - Spring 2019: Mean evaluation score 4.1 (out of 5)
- EDUC 143AW: Classroom Interactions I
  - Winter 2019: Mean evaluation score 4.2 (out of 5)
- EDUC 55: Knowing and Learning in Secondary Mathematics and Science
  - Fall 2019: Mean evaluation score 4.1 (out of 5)
- EDUC 50: Issues in K-12 Education
  - Summer 2018 (online): Mean evaluation score 8.6 (out of 9)
  - Summer 2017 (online): Mean evaluation score 8.3 (out of 9)
  - Summer 2016 (online): Mean evaluation score 8.4 (out of 9)

### *Instructor, California State University, Dominguez Hills, Carson, CA, May 2016 – 2018*

- TBE 518: Current Topics in Education Technology
  - Summer 2018 (online): Mean evaluation score 4.5 (out of 5)
  - Summer 2017 (online): Mean evaluation score 4.3 (out of 5)
  - Spring 2017 (online): Mean evaluation score 4.8 (out of 5)
  - Summer 2016 (online): Mean evaluation score 4.4 (out of 5)

## PROFESSIONAL SERVICE

- UN environment programme Earth School curriculum contributor (2020)
- UC System-wide CalTeach Symposium Showcase Committee Member (2020)
- UC Irvine Teacher Academy Advisory Board Member (UC Irvine, 2018-19, 2019-20)
- UC Irvine Division of Continuing Education Instructional Design for Higher Education Program Advisory Committee (UC Irvine, 2018-19)
- Master's of Arts in Teaching Equity Workgroup Participant (UC Irvine, 2017-20)
- Self-sustaining Master's of Arts in Education Leadership Workgroup Participant (UC Irvine, 2017-18)
- Diverse Educational Community and Doctoral Experience (DECADE) Co-Leader, (UC Irvine, School of Education, elected for 2017-18)
- Communications Director, Fostering Literacy and Learning with Text and Data Mining Symposium (UC Irvine, 2016)
- Graduate Recruitment Weekend Student Coordinator (UC Irvine, School of Education, 2016)
- DECADE Mentoring Coordinator (UC Irvine, School of Education, 2015-16, 2016-17)
- Webmaster Digital Learning Lab (UC Irvine, 2014-15, 2015-16)

- Webmaster Teacher Education Center for Research on Teacher Development and Professional Practice (UC Irvine, 2014-15, 2015-16)
- School of Education New Student Orientation Volunteer (UC Irvine, 2014-15, 2015-16)
- Communications Director, Text and Data Mining for Interactive Learning Symposium (UC Irvine, 2015)
- Santa Ana Unified School District BTSA Advisory Council, Charter School Representative Member (2013-14)
- WASC Committee Member (initial full term visit), Da Vinci Design Charter High School (2013)
- WASC Committee Member (3-year term mid-term visit), PUC CALS Early College High School (2012)
- NOVA Academy School Site Council Teacher Representative (2008-2010)

## MENTORING

- Summer Undergraduate Research Program (SURP) mentoring and research project on students' persistence in math teacher preparation program (2020).
- Summer Undergraduate Research Program (SURP) mentoring and research project on students' expectations of student teaching (2019).
- Undergraduate Research Opportunity Program (UROP) mentoring and poster presentations (Presented at UC Irvine, May, 2019)
  - Shao, M., Trieu, N., Vilaysack, N., *Emergent Social Justice Themes in a STEM Focused Teacher Preparation Program*
- Undergraduate Research Opportunity Program (UROP) mentoring and poster presentations (Presented at UC Irvine, May, 2018)
  - Dong, Q., Heng, E., Guan, T., Correa, J., Higa, E., *Exit Ticket Analysis: Implications for Formative Assessments*
  - Cruz, J., Villaescusa, C., Nguyen, J., *Factors Influencing Science Instructional Decisions of Rural Elementary School Teachers*
- Undergraduate Research Opportunity Program (UROP) mentoring and poster presentations (Presented at UC Irvine, May, 2017)
  - Castillo, L., *Learning from Teacher Practice to Improve Professional Development*
  - Quach, S., Hatanaka, R., *Museum Generated Metadata: Implications for Instruction*
- Undergraduate research assistant mentor, 3 mentees (UC Irvine, Schools of Biological and Physical Sciences 2018-19)
- Undergraduate research assistant mentor, 9 mentees (UC Irvine, School of Education 2017-18)
- Undergraduate research assistant mentor, 7 mentees (UC Irvine, School of Education 2016-17)
- Undergraduate research assistant mentor, 4 mentees (UC Irvine, School of Education 2015-16)
- UC-HSBCU mentor (UC Irvine, School of Education Summer, 2016)
- DECADE mentor (UC Irvine, School of Education, 2015, 2016)

## GUEST LECTURES & INVITED TALKS

### University of California, Irvine

- SE 194W Naturalistic field research: *Qualitative methods and action research*
  - September 2017: Mean evaluation score: 8.0 (out of 9)
  - August 2016: Mean evaluation score: 7.8 (out of 9)
  - July 2016: Mean evaluation score: 8.5 (out of 9)
  - August 2015: Mean evaluation score: 7.9 (out of 9)
  - July 2015: Mean evaluation score: 8.2 (out of 9)

- ED 50 Issues in K-12 American education
  - *All About Charter Schools* (November 2016); mean evaluation score: 8.3 (out of 9)
  - *Charter School Issues and Design* (May 2016); mean evaluation score: 8.3 (out of 9)
- ED 238B Graduate Qualitative Methods II: *Using Qualitative Software to Code your Data* (March 2016)
- Discovery Science Initiative: *Science Inquiry Learning and Enactment* (August 2015)
- ED 10 Educational Research Design: *Participatory Action Research* (March 2015)
- PSB118D Human Sexuality: *Health Education in the K-12 setting* (August 2013)
- Honors Research Seminar: *Team Building Exercises* (January 2012)

### **University of California, Los Angeles**

- Teaching and Learning Lab: *Integrating Design Based Principles to Improve Professional Development of Inquiry Science in Elementary Grades* (2016, November)

### **Biola University**

- Teacher credentialing program: *Student Data Application in the Classroom* (November 2011)
- Teacher credentialing program: *Data Driven Instruction and Analysis* (October 2011)

## **PEER REVIEW EXPERIENCE**

### ***Ad Hoc Journal Reviewer:***

- Educational Researcher (2019,2020)
- Science Education (2020)
- Journal of Research in Science Teaching (2016, 2017)
- Mathematics Teacher Educator (2016)

### ***Chapter Reviewer:***

- Preparing STEM Teachers: The UTeach Replication Model (2020)
- Handbook of Research on Strategic Communication, Leadership, and Conflict Management in Modern Organizations (2019)
- Handbook of Research on Effective Communication, Leadership, and Conflict Resolution (2015)

### ***Conference Proposal Reviewer:***

- Annual American Educational Research Association meeting, Science Teaching and Learning SIG (2020)
- Annual American Educational Research Association meeting, Division K (2016)

## **PROFFESIONAL DEVELOPMENT PRESENTATIONS**

Select presentations given at the UC Irvine School of Education:

- Reimagining Assessment (Summer 2020)
- Environmental Literacy and Environmental Justice program (Summer 2020)
- CalTeach Extravapalooza, teaching with equitably and with technology (Summer 2020)

- NGSS101: Developing Foundational Understanding of NGSS (July-August 2019)
- Developing and writing a review of literature (January, 2018)
- Qualitative data coding (October, 2017)
- The literature review (January, 2017)
- Developing mentoring practices for graduate students in the DECADE (October, 2016)
- Using bibliographic software and article organization to manage references for literature reviews (August, 2016)
- Planning and designing a first year poster (May, 2017)
- Mentoring best practices for graduate students in DECADE (December, 2015)
- Using bibliographic software to manage and references and streamline manuscript writing (August, 2015)

Selected teaching presentations given to staff at NOVA Academies (Santa Ana and Coachella campuses):

- Instructional cycle and reflective teaching
- Student data analysis and assessment
- Formal and informal student assessment tools
- Differentiating instruction in the high school classroom
- Effective student centered learning
- Student interventions and parent involvement.
- Effective use of technology in the classroom
- Common Core State Standard implementation
- Student centered and project based learning
- Benchmark testing and analysis

### TEACHING AND ADMINISTRATIVE CERTIFICATIONS

- Tier Two (Clear) K-12 Administrative Credential, current through 2024
- Clear Single Subject Teaching credential 6-12 – Biology, Chemistry, Earth Science, current through 2025
- Center for the Integration of Research, Teaching and Learning (CIRTL) associate level certification

### PROFESSIONAL DEVELOPMENT ATTENDED (Select)

Time of Crises: Teacher Education, Radical Justice, and Humanity	2020
100Kin10 9 <sup>th</sup> Annual Partner Summit	2020
Liberate and Chill Collective Spring Anti-Racist program	2020
100Kin10 8 <sup>th</sup> Annual Partner Summit	2019
Piquing Interest: Engaging and Teacher Non-Majors	2017
The Power of the Story: Teaching STEM Courses with Case Studies	2017
The Case Against Multi-Tasking: What the Research Says	2017
Rubrics, Fairness, and Feedback (Center for Engaged Instruction, UC Irvine)	2017
Common Core State Standards implementation	2013
The National Academies <i>Assessing 21<sup>st</sup> century skills</i>	2011
Project Oriented Guided Inquiry Learning (POGIL)	2009
Thinking maps (Certification)	2008

### FOREIGN LANGUAGES

Spanish: Read, write, and speak at an advanced level

Hebrew: Speak at an advanced level, read and write at beginning levels

Hungarian: Speak at an intermediate level

Portuguese: Speak at a beginning level

Italian: Speak at a beginning level