



CHUKWUEBUKA C. NWEKE, Ph.D., E.I.T

Assistant Professor

University of Southern California

Sonny Astani Department of Civil and Environmental Engineering

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RESEARCH INTERESTS

Site-specific and region-specific ground motion site effects modeling, evaluation and application of physics-based earthquake simulation, determining the dynamic material properties of bio-cemented soils, earthquake effects on lifeline infrastructure systems, innovative hazard reconnaissance methods, cloud-based computation and data management for hazard preparation, and pre- and post-assessment, hazard framework for wildfires.

EDUCATION

- Ph.D. University of California, Berkeley**
Civil and Environmental Engineering (Geotechnical) 2017
Dissertation - *Constitutive Modeling of Weakly Cemented Sands*
Dr. Nicholas Sitar (Chair/Advisor)
Dr. Juan Pestana (Advisor)
Minors: Geomorphology, Numerical Analysis/Finite Element Modeling
- M.S. University of California, Berkeley**
Civil and Environmental Engineering (Geotechnical) 2013
- B.S. University of California, Davis**
Civil and Environmental Engineering 2012

CERTIFICATIONS

Engineer-In-Training (EIT), State of California (Certificate No. *EIT 144450*)

Professional Engineer (PE) – In progress (to be acquired by November 2021)

EXPERIENCE

Assistant Professor, University of Southern California, Sonny Astani Department of Civil and Environmental Engineering (August 2021 – present)

Staff Engineer, ENGEO Incorporated (August 2020 – April 2021)

Postdoctoral Research Fellow, Department of Civil and Environmental Engineering, University of California at Los Angeles (October 2017 – July 2020)

Graduate Student Researcher/Instructor, Department of Civil and Environmental Engineering, University of California at Berkeley (August 2012 – August 2017)

Engineer/Laboratory Intern, ENGEO Incorporated (May 2013 – July 2013; April 2012 – August 2012)

Field Engineer Intern, Hensel Phelps Construction Company (June 2011 – September 2011)

Student Research Assistant/Heavy Vehicle Operator, Advance Transportation Infrastructure Research Center, University of California at Davis (November 2011 – July 2012)

Student Assistant, Network for Earthquake Engineering Simulation at the Center for Geotechnical Modeling, University of California at Davis (May 2010 – April 2012)

RESEARCH EXPERIENCE

University of California, Los Angeles, Department of Civil and Environmental Engineering

CyberShake Simulation Validation using Ground Motion Recordings

Status: Selected for Funding

Sponsor: Southern California Earthquake Center (SCEC)

Role: Post-doctorate Researcher (PI's: Prof. Jonathan P. Stewart and Prof. Scott J. Brandenburg)

Amount: \$34,667

Dates: July 2018 – May 2019

Brief: This project focuses on validating the basin site amplification in simulated earthquake ground motion datasets from the SCEC platforms by comparative analysis with observed earthquakes from the Next Generation Attenuation aggregated dataset. The goal is to verify and validate simulation methods that will supplement the current data used in engineering applications in southern California and the entire United States.

Basin Effects on Earthquake Ground Motion in Southern California

Status: Selected for Funding

Sponsors: Pacific Earthquake Engineering Research (PEER), California Department of Transportation (Caltrans), National Science Foundation (NSF) Alliance for the Graduate Education and Professoriate (AGEP): California Alliance Fellowship

Role: Post-doctorate Researcher/Co-PI (PI's: Prof. Scott J. Brandenberg, Prof. Jonathan P. Stewart, and Prof. Yousef Bozorgnia)

Amount: \$110,000

Dates: October 2017 – October 2019

Brief: This project focuses on investigating components of variability in earthquake ground motion prediction equations at sedimentary basin locations in comparison to non-basin locations. With the recent improvement of earthquake recording datasets, it is proposed to evaluate the magnitude of variability and uncertainty in ground shaking estimates within the basin regions in hopes to reduce earthquake hazard relative to current practices.

University of California, Berkeley, Department of Civil and Environmental Engineering

Constitutive Modeling of Weakly Cemented Sands (Bio-cemented sands)

Status: Ph.D. research topic

Sponsors: National Science Foundation (NSF) Bridge-to-Doctorate Fellowship, University of California Dissertation Fellowship, University of California at Berkeley College of Engineering

Role: Graduate Student Researcher (Advisors: Prof. Nicholas Sitar and Prof. Juan Pestana)

Dates: August 2012 – May 2017

Brief: Developed a constitutive model based on Nor-Sand that accounts for the effects of cementation in the behavior of sand under loading. Specifically, focusing on the changes in shear strength and stiffness, as well as the degradation of the cementing agent and transition to the uncemented behavior.

University of California, Davis, Department of Civil and Environmental Engineering

Advanced Transportation Infrastructure Research Center,

[November 2011 – July 2012]

HVS Operator/Student Research Assistant Volunteer

- Assisted on permeable pavement research project and experiments
- Operated the Heavy Vehicle Simulator that is used to perform accelerated pavement experiments

Network for Earthquake Engineering Simulation, Center for Geotechnical Modeling,

[May 2010 – April 2012]

Student Assistant

- Assisted on research projects and experiments with multiple groups from varying universities
- Building and preparing geotechnical models for testing on the nine-meter centrifuge
- Maintained machine shop and upgraded parts on the centrifuge

PUBLICATIONS

(ORCID: <https://orcid.org/0000-0002-8939-571X>;

Google Scholar: <https://scholar.google.com/citations?user=8Jh86roAAAAJ&hl=en>)

Journals (Accepted)

Ikeagwuani, C. C., Nwonu, D. C., **Nweke, C. C.** (2021) “Resilient modulus descriptive analysis and estimation for fine-grained soils using multivariate and machine learning methods”, *International Journal of Pavement Engineering*, 0 (0), 1-16, <https://doi.org/10.1080/10298436.2021.1895993>

Ahdi, S. K., S. Mazzoni, T. Kishida, P. Wang, **C. C. Nweke**, N. M. Kuehn, V. Contreras, B. Rowshandel, J. P. Stewart, and Y. Bozorgnia (2020). “Engineering Characteristics of Ground Motions Recorded in the 2019 Ridgecrest Earthquake Sequence”, *Bull. Seismol. Soc. Am.* 110 (4), 1474–1494, doi: [10.1785/0120200036](https://doi.org/10.1785/0120200036)

Zimmaro, P., **C. C. Nweke**, J. L. Hernandez, K. S. Hudson, M. B. Hudson, S. K. Ahdi, M. L. Boggs, C. A. Davis, C. A. Goulet, S. J. Brandenburg, et al. (2020). “Liquefaction and Related Ground Failure from July 2019 Ridgecrest Earthquake Sequence”, *Bull. Seismol. Soc. Am.* 110 (4), 1549–1566, doi: [10.1785/0120200025](https://doi.org/10.1785/0120200025)

Brandenberg, S. J., Stewart, J. P., Wang, P., **Nweke, C. C.**, Hudson, K., Goulet, C. A., Meng, X., Davis, C. A., Ahdi, S. K., Hudson, M. B., Donnellan, A., Lyyzenga, G., Pierce, M., Wang, J., Winters, M. A., Delisle, M., Lucey, J., Kim, Y., Gallien, T. W., Lyda, A., Yeung, J. S., Issa, O., Buckreis, T. (2020). “Ground Deformation Data from GEER Investigations of Ridgecrest Earthquake Sequence”. *Seismological Research Letters*. 110 (4), 2024-2034, <https://doi.org/10.1785/0220190291>

Mangalathu, S., Sun, H., **Nweke, C. C.**, Yi, Z., & Burton, H. V. (2020). “Classifying earthquake damage to buildings using machine learning”. *Earthquake Spectra*, 36(1), 183–208. <https://doi.org/10.1177/8755293019878137>

Journals (Submitted)

Goulet, C. A., Wang, Y., **Nweke, C. C.**, Tang, B., Wang, P., Hudson, K. S., Ahdi, S. K., Meng, X., Hudson, M. B., Donnellan, A., Lyyzenga, G., Brandenburg, S. J., Stewart, J. P., Gallien, T., Winters, M. A., Hudnut, K. W., “*Comparison of Near-Fault Displacement Interpretations from Field and Aerial Data for the M6.4 and M7.4 Ridgecrest Earthquake Sequence Ruptures*” Submitted to the Bulletin of Seismological Society of America.

Conference Papers

Nweke, C. C., Wang, P., Brandenburg, S. J., Stewart, J. P., (2018). “*Reconsidering Basin Effects in Ergodic Site Response Models*”, Proc. SMIP2018 Seminar on Utilization of Strong Motion Data, California Strong Motion Instrumentation Program, Sacramento, CA. <https://escholarship.org/content/qt6048v74k/qt6048v74k.pdf>

Nweke, C. C., & Pestana, J. M. *Modeling Bio-Cemented Sands: A Strength Index for Cemented Sands*. In *IFCEE 2018* (pp. 48-58).

Nweke, C. C., & Pestana, J. M. *Modeling Bio-Cemented Sands: Shear Strength and Stiffness with Degradation*. In *Grouting 2017* (pp. 34-45).

Technical Reports

Nweke, C.C., Stewart, J.P., Brandenburg, S.J., (2020) *Site Response of Southern California Sedimentary Basins and Other Geomorphic Provinces*. UCLA B. John Garrick Institute for the Risk Sciences Report GIRS-2020-12, doi: 10.34948/N3159F, <https://www.risksciences.ucla.edu/girs-reports/2020/12>

Stewart, J.P., **Nweke, C.C.,** Goulet, C.A., Graves, R.W., (2019) *CyberShake Simulation Validation using Ground Motion Recordings*. Southern California Earthquake Center Report SCEC-18136, <https://www.scec.org/proposal/report/18136>

Stewart, J.P. (ed.), Brandenburg, S.J., Wang, Pengfei, **Nweke, C.C.,** Hudson, K., Mazzoni, S., Bozorgnia, Y., Hudnut, K.W., Davis, C.A., Ahdi, S.K., Zareian, F., Fayaz, J., Koehler, R.D., Chupik, C., Pierce, I., Williams, A., Akciz, S., Hudson, M.B., Kishida, T., Brooks, B.A., Gold, R.D., Ponti, D.J., Scharer, K.M., McPhillips, D.F., Ericksen, T., Hernandez, J., Patton, J., Olson, B., Dawson, T., Treiman, J., Duross, C.B., Blake, K., Buchhuber, J., Madugo, C., Sun, J., Donnellan, A., Lyzenga, G., and Conway, E., (2019). *Preliminary report on engineering and geological effects of the July 2019 Ridgecrest Earthquake sequence: Geotechnical Extreme Events Reconnaissance Association Report GEER-064*, <https://doi.org/10.18118/G6H66K>.

Stewart, J. P., **Nweke, C. C.,** Wang, P., Bozorgnia, Y., Brandenburg, S. J., (2019). “*Effects of Factors Beyond Sediment Depth on Site Response in Southern California Basins*” Report prepared for the California Department of Transportation.

Weber, J. P., Seed, R. B, Pestana, J. M., Moss, R. E. S., **Nweke, C. C.,** Deger, T. T., Chowdhury, K. (2015). “*Engineering Evaluation of Post Liquefaction Residual Strength*.” Vol. 1&2. 400 pages. Report prepared for U.S. Nuclear Regulatory Commission.

Published Database

Nweke, C., Graves, R., Goulet, C.A., Brandenburg, S. Stewart, J. (2019) "Forward Simulation of Earthquakes in Southern California with UCVMs", in *Southern California Earthquake Center (SCEC) Simulation Validation for Southern California Basins using Ground Motion Recordings*. DesignSafe-CI. <https://doi.org/10.17603/ds2-762f-sg15>.

Brandenberg, S.J., Goulet, C.A., Wang, P., **Nweke, C.C.**, Davis, C.A., Hudson, M.B., Hudson, K.S., Ahdi, S.K., and Stewart, J.P. (2019). “*GEER Field Reconnaissance*.” In Ridgecrest, CA Earthquake Sequence, July 4 and 5, 2019, Designsafe-CI. <https://doi.org/10.17603/DS2-VPMV-5B34>.

Magazine Articles

Gardner, M., Lanzafame, R., Cohen-Waeber, J., **Nweke, C. C.**, (April 2018). *Lessons learned from Geolegends: Richard E. Goodman, PhD, NAE*. *Geostrata – Geo Institute of ASCE*, 22(2) pp. 26-30,32-33.

PRESENTATIONS

Invited Lectures

Nweke, C. C., *Seismic Site Response in Sedimentary Basins and Other Geomorphic Domains*. Presented to the Geotechnical group at University of Massachusetts, Dartmouth [November 2020]

Nweke, C. C., *Sedimentary Basin Effects in Ground Motions from Empirical Models and Simulation Platforms*. Presented at the Earthquake Seminar Series (<https://earthquake.usgs.gov/contactus/menlo/seminars/1297>) to the Earthquake Science Center at United States Geologic Survey [September 2020]

Nweke, C. C., *Basin Effects in Simulated and Observed Ground Motions for Southern California*. Presented to the ARUP Geotechnical Group [May 2020]

Nweke, C. C., *Nature & Infrastructure Harmony – Resilient methods, Reliable systems, and Resilient Design: Seismic Hazards*. Presented at the Department of Biosystems and Agricultural Engineering Seminar, University of Kentucky [September 2019]

Nweke, C. C., *A Constitutive Model for Weakly Cemented Sands*. Presented at the Geotechnical Graduate Students Society Seminar, University of California, Davis [February 2019]

Nweke, C. C., *Reconsidering Basin Effects in Ergodic Site Response Models*. Presented at the Geotechnical Lecture Series, Oregon State University [February 2019]

Nweke, C. C., *Nature & Infrastructure Harmony – Resilient methods, Reliable systems, and Resilient Design: Seismic Hazards*. Presented at the Sonny Astani Department of Civil and Environmental Engineering Seminar, University of Southern California [January 2019]

Nweke, C. C., *Reconsidering Basin Effects in Ergodic Site Response Models*. Presented at the Civil Engineering Seminar Series, Loyola Marymount University [November 2018]

Nweke, C. C., *The Life and Experience of an Engineer who is Black in Academia*. Presented at the Civil Engineering Seminar Series, Loyola Marymount University [November 2018]

Nweke, C. C., *Constitutive Modeling of Weakly Cemented Sands*. Presented at the Samueli School of Engineering Civil Engineering Seminar Series, University of California, Irvine [October 2018]

Nweke, C. C., *Constitutive Modeling of Weakly Cemented Sands*. Presented at the 2018 California Alliance Retreat, Berkeley CA

Nweke, C. C. and Pestana, J. M. *Modeling Bio-Cemented Sands: A Strength Index for Cemented Sands*. Presented at the 2017 RIT Future Faculty Career Exploration Program

Guest Lectures

“*Shear Strength of Sands and Clays*”, CEE220: Advanced Soil Mechanics, University of California, Los Angeles [Fall 2018]

“*Numerical Modeling In Foundation Engineering using PLAXIS2D and 3D*”, CIVL411: Foundations, Loyola Marymount University [Spring 2018]

“*Consolidation in soft soils*” CEE120: Principles of Soil Mechanics, University of California, Los Angeles [Fall 2017]

Conference Presentations

Nweke, C. C., *Basin Effects in Simulated and Observed Ground Motions for Southern California*. Presented at Consortium of Organizations for Strong Motion Observation Systems (COSMOS) Technical Session [January 2021]

Nweke, C. C., *Basin Effects in Simulated and Observed Ground Motions for Southern California*. Presented at the 2020 National Earthquake Conference in San Diego [March 2020]

Nweke, C. C., *Not the Big One, But some Good Ones: Strong Motion Data and Geotechnical Engineering Impacts from the Ridgecrest Earthquake Sequence*. Presented at the Geo-PIT Speaker Series during the 2020 GeoCongress in Minneapolis [February 2020]

Nweke, C. C., *Sedimentary Basin Amplification in Southern California Based on Physics-Based Simulations*. Presented at the Le Val Lund Student Symposium, California Institute of Technology [November 2019]

Nweke, C. C., *Sedimentary Basin Amplification in Southern California Based on Physics-Based Simulations*. Presented at the NSF Alliance for Graduate Education and the Professoriate (AGEP) Research Exchange Retreat, Mechanical and Civil Engineering, Stanford University [October 2019]

Nweke, C. C., *Reconsidering Basin Effects in Ergodic Site Response Models*. Presented at the 2019 Annual Pacific Earthquake Engineering Research (PEER) Meeting, University of California, Los Angeles [January 2019]

Stewart, J. P., and Nweke, C. C., *Reconsidering Basin Effects in Ergodic Site Response Models*. Presented at the Le Val Lund Student Symposium, University of Southern California [November 2018]

Nweke, C. C. and Pestana, J. M. *Modeling Bio-Cemented Sands: A Strength Index for Cemented Sands*. Presented at the 2018 International Foundation Congress and Equipment Exposition (IFCEE 2018)

Nweke, C. C. and Pestana, J. M. *Modeling Bio-Cemented Sands: Shear Strength and Stiffness with Degradation*. Presented at the 2017 Grouting Conference

Panels

“*Maximizing your PhD: Preparing for Academia or Industry*”, 44th Annual Convention, National Society of Black Engineers [March 2018]

TEACHING EXPERIENCE

University of California, Los Angeles, Civil and Environmental Engineering Department

Instructor

ENGR 87: Introduction to Engineering Disciplines [Fall 2018; Fall 2019]
Part of a group of four instructors leading a course for freshman engineering students to explore differences between engineering disciplines and the functions engineers perform. We instruct students on the required skills (computer programming, analysis techniques, etc.), and coordinated teams to enable further development.

University of California, Berkeley, Civil and Environmental Engineering Department

Graduate Student Instructor/Teaching Assistant

ENG 7: Introduction to Computer Programming [Spring 2016]
Facilitated lab sessions and lectured on the fundamentals of programming and its application using MATLAB (syntax, code structure, programming logic). Assisted in creating and grading assignments, examinations, and term project.

CE 270: Advanced Geomechanics [Fall 2015]
Coordinated office hours for masters’ students to reinforce geotechnical concepts. Advised on appropriate methods required to solve geotechnical problem sets.

Reader/Grader

CE 130/ME 85: Introduction to Solid Mechanics [Summer 2014]
Graded homework sets, midterm, and final.

CE 275: Geotechnical Earthquake Engineering [Fall 2013]
Graded homework sets.

Citizens Schools at the United for Success Academy, Oakland CA

Volunteer “After School” Teacher

Dam Well Done, [Spring 2013]

Designed and executed lesson plans to teach middle school students (mixed class of 6th – 8th graders) how to build a miniature Mechanically Stabilized Earth Retaining Wall (MSE Wall) using a prefabricated wooden box filled with beach sand, a poster board for the wall, and Kraft paper for reinforcing strips.

Los Padrinos Juvenile Detention School, Downey CA

Tutor, [Summer 2009]

Served as an additional teaching source for student inmates. Assisted in executing lesson plans for Math and Science curriculum. Focus was placed on Pre-Algebra, Algebra, Geometry, Biology, and Pre-Physics.

INDUSTRY EXPERIENCE

ENGEIO Incorporated

Staff Engineer, Irvine, CA [August 2020 – April 2021]

- Non-ergodic seismic analysis of office campus infrastructure in South Bay Area
- Liquefaction hazard analysis of entertainment district development in Anaheim, CA
- Site response analysis for educational housing in Santa Rosa, CA
- Numerical modeling of earthquake hazard on public school buildings and property adjacent to creek in San Pablo, CA
- Numerical modeling of deep excavation reinforced with soil nails, tie backs, and shotcrete

Assistant Engineer/Lab Technician Intern, San Ramon, CA [May 2013 – July 2013]

- Prepared Geotechnical reports for the repair/rebuild of residential buildings in Christchurch, NZ post Canterbury Earthquake Sequence
- Analyzed possible foundation designs for retaining wall interface between a bio-retention swales and adjacent structures
- Performed ASTM and Caltrans laboratory tests for a variety of project sites:
 - Compaction curves, Plasticity index test, sulfur test, fine and coarse gradation/sand equivalent/compliance testing

Assistant Engineer Intern, San Ramon, CA [April 2012 – August 2012]

- Performed compaction curves, Caltrans compaction curves, concrete breaks, sieve analysis and gradation, R-value tests and sulfur tests for a variety of project sites
- Acquired a Nuclear Gauge certification
- Organized “Review” letters and site plans for multiple projects
- Created letters and assessed plans for Geological Hazard Abatement Districts (GHAD)
- Developed foundation and retaining wall plan reports for multiple projects
- Compiled SPT and CPT data for the proposed Central Valley section of the California High Speed Rail

- Monitored and oversaw a drilling expedition for environmental remediation near a retirement home in Union City, CA
- Acquired permits for construction projects

Hensel Phelps Construction Company, Denver, CO

Field Engineer Intern [June 2011 – September 2011]

- Worked on the construction of the History Colorado Center building in downtown Denver where I:
 - Performed multiple layouts, concrete takeoffs, and as-builds
 - Organized and coordinated safety meetings
 - Participated in the quality assurance program
 - Managed subcontractor responsible for site work excavation
 - Coordinated and executed installation of all light poles and security poles for the project

LEADERSHIP AND PROFESSIONAL AFFILIATIONS

Professional Memberships and Affiliations:

- Earthquake Engineering Research Institute (EERI), **Member** [2018 – Present]
- Consortium of Organizations for Strong Motion Observation Systems (COSMOS), **Member** [2021 – Present]
- National Center for Faculty Development and Diversity, **Member** [2017 – Present]
- Geotechnical Extreme Event Reconnaissance (GEER), **Member** [2016 – Present]
 - 2019 Ridgecrest Earthquake Sequence (Ridgecrest Earthquake events, **M6.4 & M7.1**) Reconnaissance Team.
- Geo-Institute
 - **Member** [2012 – Present]
 - Soil Properties and Modeling Technical Committee, **Member** [2017 – Present]
 - Earthquake Engineering and Soil Dynamics Committee, **Member** [2019 – Present]
- American Society of Civil Engineers (ASCE), **Member** [2010 – Present]
- National Society of Black Engineers (NSBE):
 - **Member** [2010 – Present]
 - Region Six **Programs Chair** [2011 – 2012]

Academic Service (Peer Reviewer):

- ASCE Natural Hazards Review Journal
- Conference paper **reviewer**, 2020 Geo-Congress in Minneapolis, ASCE Geo-Institute Soil Properties & Modeling Committee [2019 – 2020]
- Conference paper **reviewer**, 2018 IFCEE Conference in Orlando, ASCE Geo-Institute Soil Properties & Modeling Committee [2017 – 2018]

Leadership and Other Affiliations:

- National Science Foundation (NSF) California Alliance Community Engagement Board, **Member** [2018 – 2020]
- Black Graduate Engineering and Science Students Association, UC Berkeley:
 - **Communications Chair** [2015 – 2017]
 - **Member** [2012 – 2017]
- American Society of Civil Engineers Mid-Pac Geo-Challenge Team (ASCE), UC Davis, **Captain** [2010 – 2012]
- Black Engineers Association, University of California, Davis NSBE Chapter:
 - **Member** [2010 – 2012]
 - **President** [2010 – 2011]

DISTINCTIONS AND AWARDS

2021 – 2022 Provost Faculty Fellowship, University of Southern California

2020 Georgia Institute of Technology Focus Fellow

National Science Foundation (NSF) Alliance for Graduate Education and the Professoriate (AGEP); California Alliance Postdoctoral Fellow: UCLA; Fall 2017 – Present

2017 University of Michigan NEXTProf Participant

2017 Rochester Institute of Technology Future Faculty Career Exploration Program Participant

One of seventeen selected

NSF Leverage Awardee and Participant; NSF Grants #1649384 & #1548322 (2016, 2017, 2018, 2019)

University of California (UC) Dissertation Award

One of twelve awarded

Fall 2016 – Spring 2017

NSF Bridge-to-Doctorate Fellowship

One of nine awarded

Fall 2012 – Spring 2014

Ford Foundation Fellowship 2016 Dissertation Competition, Honorable Mention

SERVICE AND OUTREACH

- **Mentor**, SMASH (Summer Math and Science Honor Academy) UCLA [Summer 2019, 2020]
- **Coordinator**, UCLA Semiconductor Research Corporation (SRC) Summer Research Program [Summer 2019]
- **Coordinator**, UCLA Summer Bridge Review for Enhancing Engineering Students (BREES) [Summer 2018]
- **Mentor**, Engineering 87 (E87) – Introduction to Engineering Disciplines, UCLA Center for Excellence in Engineering Diversity (CEED) [Fall 2017]
- **Mentor**, Sankofa Academy Mentor Moments Program for 6th – 8th grade, Oakland CA [Spring 2017]
- **Mentor**, Chevron E-Bike Volunteer at Richmond High School, Richmond, CA [February – April, 2014]
- **Tutor**, Citizens Schools Volunteer for 6th and 7th grade at United for Success Academy, Oakland, CA [February – April, 2013]