

## Corey E. Baker, Ph.D.

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University of Kentucky  
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### EDUCATION

- August 2015      **University of Florida**, Gainesville, FL  
Ph.D. Electrical and Computer Engineering  
Dissertation: *Opportunistic routing in delay tolerant mobile social networks*
- May 2012      **University of Florida**, Gainesville, FL  
M.S. Electrical and Computer Engineering
- June 2010      **California State University Los Angeles**, Los Angeles, CA  
M.S. Electrical and Computer Engineering  
Thesis: *Design and implementation of a non-linear dynamical spring replicating buckling behavior*
- May 2008      **San Jose State University**, San Jose, CA  
B.S. Computer Engineering  
Minor: Mathematics

### APPOINTMENTS

- Jan. 2018 – Present      *Assistant Professor*, Department of Computer Science, University of Kentucky, Lexington, KY
- June 2017 – Dec. 2017      *Visiting Scholar*, Department of Electrical Engineering, University of Southern California, Los Angeles, CA, Mentor: Prof. Bhaskar Krishnamachari
- Aug. 2015 – Dec. 2017      [University of California Presidents Postdoctoral Fellow](#), Department of Electrical and Computer Engineering, University of California - San Diego, La Jolla, CA  
Mentor: Prof. Ramesh Rao
- Jan. 2011 – Aug. 2015      *Research Assistant*, Wireless and Mobile Systems Laboratory, University of Florida, Gainesville, FL, Advisor: Prof. Janise McNair
- Feb. 2009 – June 2010      *Research Assistant*, Brain and Body Dynamics Laboratory, University of Southern California, Los Angeles, CA, Advisor: Prof. Francisco Valero-Cuevas
- Feb. 2009 – Aug. 2009      *Research Assistant*, Neuroengineering Technology Laboratory, California State University Los Angeles, Los Angeles, CA, Advisor: Prof. Deborah Won

### SPONSORED RESEARCH

- [S 6] Title: SCC-PG: E-WARP: Early wildlife automatic risk perception system  
Amount Requested: \$150,000 (Responsible for \$23,777)

- Agency: National Science Foundation (NSF)  
PI: Grant C  
Co-PI: **Baker, CE**, Doan-Nguyen V, Weng B  
Status: Submitted - In Review  
Dates: 6/1/20 - 5/31/21
- [S 5] Title: SCC-PG: Low-cost smart cities: designing affordable smart cities for all communities  
Amount Requested: \$150,000  
Agency: National Science Foundation (NSF)  
PI: **Baker, CE**  
Co-PI: Erhardt G, Grant C, Khamfroush H  
Status: Submitted - In Review  
Dates: 1/1/20 - 12/31/21
- [S 4] Title: CRII: NeTS: Real-Word Evaluations of Opportunistic Networks  
Amount Requested: \$174,999  
Agency: National Science Foundation (NSF)  
PI: **Baker, CE**  
Status: Submitted - In Review  
Dates: 1/1/20 - 12/31/21
- [S 3] Title: Linking and amplifying user-centered networks through connected health L.A.U.N.C.H  
Amount Requested: \$200,000 (Responsible for ~\$84,000)  
Agency: Westat  
PI: Chih M  
Co-I: **Baker, CE**, Huang B, Kim J, Mullet T  
Status: Pending  
Dates: 11/1/19 - 7/31/20
- [S 2] Title: Linking and amplifying user-centered networks through connected health L.A.U.N.C.H  
Amount: \$150,000 (Responsible for \$12,971)  
Agency: ICF  
PI: Vanderpool R  
Co-I: **Baker, CE**, Chih M, Huang B, Mullet T, Studts J  
Status: Funded  
Dates: 3/17/19 - 9/21/19
- [S 1] Title: University of Kentucky Department of Computer Science Faculty Fellowship  
Amount: \$15,000  
PI: **Baker, CE**  
Status: Funded  
Dates: 1/1/18- 12/31/20

## **PUBLICATIONS**

### ***Journal Articles***

- [J 2] St Juste P, Jeong K, Eom H, **Baker C**, and Figueiredo R, "TinCan: User-defined P2P virtual network overlays for ad-hoc collaboration," ICST Transactions on Collaborative Computing, Vol. 14, Issue 2, August 2014
- [J 1] St Juste P, Eom H, Woodruff B, **Baker C**, and Figueiredo R, "Enabling decentralized microblogging through P2PVPNs," The International Journal of Security and Networks, Vol. 8, Issue 3, pp. 169-178, November 2013

### ***Refereed Conference Proceedings***

- [C 7] Max-Onakpoya E, Madamori O, Grant F, Vanderpool R, Chih M, Ahern DK, Aronoff-Spencer E, and **Baker CE**, "Augmenting cloud connectivity with opportunistic networks for remote patient

- monitoring in rural areas," IEEE International Conference on Computing, Networking and Communications (ICNC), Big Island, HI, 2020 (Accepted - In press) (**Acceptance Rate: 24.9%**)
- [C 6] Starke A, Nei Z, Hodges M, **Baker CE**, and McNair J, "Denial of service detection & mitigation scheme using responsive autonomic virtual networks (RAVN)," IEEE Military Communications Conference (MILCOM), Norfolk, VA, 2019 (Accepted - In press)
- [C 5] Donawa A, Orukari I, **Baker CE**, "Scaling blockchains to support electronic health records for hospital systems," IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference, Columbia University, NY, 2019 (Accepted - In press)
- [C 4] Madamori O, Max-Onakpoya E, Grant C, and **Baker CE**, "Using delay tolerant networks as a backbone for low-cost smart cities," IEEE International Conference on Smart Computing (SmartComp), Washington DC, 2019
- [C 3] **Baker C**, Starke A., Hill-Jarrett T, and McNair J, "In vivo evaluation of a secure opportunistic schemes middleware using a delay tolerant social network," IEEE International Conference on Distributed Computing Systems (ICDCS), Atlanta, GA, 2017 (**Acceptance Rate: 15%**)
- [C 2] **Baker C**, Dunnavant J, and McNair J, "How the pathway to engineering affects diversity in the engineering workforce: A Silicon Valley Case Study," ASEE Annual Conference & Exposition, Seattle, WA, 2015
- [C 1] **Baker C**, Almodovar-Faria J, St Juste P, and McNair J, "Low energy socially cognizant routing for delay tolerant mobile networks," IEEE Military Communications Conference (MILCOM), San Diego, CA, 2013

#### **Refereed Workshop Proceedings**

- [W 1] Max-Onakpoya E, Madamori O, **Baker CE**, "Utilizing opportunistic social networks for remote patient monitoring in rural areas," ACM International Workshop on Technology Enablers and Innovative Applications for Smart Cities (TESCA), Columbia University, NY, 2019 (Accepted - In press)

#### **Refereed Posters, Printed-Abstracts, Demos**

- [P 13] Vabderpool R, Mukket T, Chih M, Studts J, and **Baker CE**, "Linking and amplifying user-centered networks through connected health (L.A.U.N.C.H)," Markey Cancer Center Affiliate Network Cancer Care Conference, Lexington, KY, 2019 [*Poster, Demo*]
- [P 12] Grooms X and **Baker CE**, "Utilizing delay tolerant networking in unmanned aerial vehicle applications," ACM Richard Tapia Celebration of Diversity in Computing, San Diego, CA, 2019 (**1<sup>st</sup> Place**) [*Poster*]
- [P 11] Madamori O and **Baker CE**, "Opportunistic Device-to-Device Communication for Low-cost Smart Cities," ACM Richard Tapia Celebration of Diversity in Computing, San Diego, CA, 2019 [*Poster*]
- [P 10] Madamori O and **Baker CE**, "Using delay tolerant networks as a backbone for low-cost smart cities," IEEE International Conference on Smart Computing (SmartComp), Washington DC, 2019 [*Poster*]
- [P 9] Imarah M, Sutton L, and **Baker CE**, "Improving the awareness and diagnoses of parkinson's disease using computer-aided techniques," University of Kentucky Undergraduate Scholars Showcase, 2019 [*Poster*]
- [P 8] Max-Onakpoya E, Jacobs A, and **Baker CE**, "Application design considerations for remote patient monitoring using healthkit and iOS," ACM International Workshop on Mobile Computing Systems and Applications (HotMobile), Santa Cruz, CA, 2019 [*Poster, Printed-Abstract*]
- [P 7] **Baker C**, Starke A., Hill-Jarrett T, and McNair J, "In vivo evaluation of a secure opportunistic schemes middleware using a delay tolerant social network," IEEE International Conference on Distributed Computing Systems (ICDCS), Atlanta, GA, 2017 [*Poster, Demo*]

- [P 6] **Baker C**, Starke A, Xing S, and McNair J, "AlleyOop Social: a research platform for real-world evaluation of routing schemes in delay tolerant social networks," IEEE International Conference on Computer Communications (INFOCOM), Atlanta, GA, 2017 [*Poster, Printed-Abstract, Demo*]
- [P 5] **Baker C**, and Javidi T, "Considering uncertainty in link-state information for wireless D2D communication in software defined networks," Academic Research and Leadership Network, Massachusetts Institute of Technology, Boston, MA, 2016 [*Poster*]
- [P 4] **Baker C**, Almodovar-Faria J, and McNair J, "Simulations of LESC routing over Bluetooth LE," ACM Richard Tapia Celebration of Diversity in Computing, Seattle, WA, 2014 (**3<sup>rd</sup> Place**) [*Poster*]
- [P 3] **Baker C**, Almodovar-Faria J, and McNair J, "Low bandwidth efficient mobile message delivery with LESC," 2013 NSF I<sup>3</sup> Graduate Student Research Day, University of Florida, Gainesville, FL, 2013 [*Poster*]
- [P 2] **Baker C**, St. Juste P, and McNair J, "Socially aware delay tolerant microblogging for mobile devices," GT<sup>2</sup>, Georgia Institute of Technology, Atlanta, GA, 2012 [*Poster*]
- [P 1] **Baker C**, Valero-Cuevas FJ, "Design and implementation of a non-linear dynamical system replicating spring replicating spring buckling behavior," NSF LSAMP/BD Meeting and Presentation On The Hill, Washington D.C., 2010 [*Poster*]

### **Intellectual Property**

- [I 1] **Baker C**, Almodovar-Faria J, and McNair J, "Ad-hoc social network (AHSN) system, ahsn-enabled device, and methods of use," WO Patent, WO2016179583-A1, November 10, 2016

### **PRESENTATIONS**

#### **Talks**

- [T1] Max-Onakpoya E, **Baker CE**, "Utilizing opportunistic social networks for remote patient monitoring in rural areas," IEEE/ACM Medical Cyber Physical Systems in Internet of Things Workshop, Washington, DC, 2019

#### **Invited Talks**

- [I 8] **Baker CE**, "AlleyOop Social: supplementing centralized infrastructure with opportunistic communication," Obsidis Meshing With Data Hackathon, San Juan, PR, 2018
- [I 7] **Baker C**, "When disaster strikes: supplementing centralized infrastructure with opportunistic communication," Ming Hsieh Institute Seminar Series Communication, Networks, and Systems (CommNetS), University of Southern California, March 2017
- [I 6] **Baker C**, "Considering uncertainty in link-state information for wireless D2D communication in software defined networks," University of California Presidents Fellow Academic Retreat, April 2016
- [I 5] St. Juste P, **Baker C**, Figueiredo R. "Data privacy tools in the age of ubiquitous data collection," ACM Richard Tapia Celebration of Diversity in Computing, 2015
- [I 4] **Baker C**, McNair J, "Message delivery for evolving community structures in mobile ad-hoc social networks," Black Graduate Student Organization Grad Research Impact Series, November 2014
- [I 3] **Baker C**, McNair J, "Community based message delivery for wearables using bluetooth low energy socially cognizant routing," Future Faculty and Professional Technical Presentation, GEM Annual Board Meeting and Conference, August 2014 (**3<sup>rd</sup> Place**)
- [I 2] **Baker C**, Almodovar-Faria J, St. Juste P, and McNair J, "Socially cognizant delay tolerant microblogging for mobile devices," GEM Tech Talks, National Society of Black Engineers, National Convention, 2013
- [I 1] **Baker C**, Valero-Cuevas FJ, "Design and implementation of a non-linear dynamical system replicating spring replicating spring buckling behavior," MORE Programs Student Seminars, California State University Los Angeles, Los Angeles CA, May 2010

## TEACHING

Fall 2019	CS 485G Mobile Applications Development for iOS, University of Kentucky Syllabus: <a href="http://bit.ly/2MzV9Uz">http://bit.ly/2MzV9Uz</a>
Spring 2019	CS 685 Mobile Applications for Blockchains, University of Kentucky Syllabus: <a href="http://bit.ly/2M7oAOG">http://bit.ly/2M7oAOG</a>
Fall 2018	CS 485G Mobile Applications Development for iOS, University of Kentucky Syllabus: <a href="http://bit.ly/2B51eTs">http://bit.ly/2B51eTs</a>
Spring 2018	CS 685 Opportunistic Wireless Communication, University of Kentucky Syllabus: <a href="http://bit.ly/2pfzVTU">http://bit.ly/2pfzVTU</a>
Spring 2016	ECE 158B Data Networks II, University of California – San Diego Syllabus: <a href="http://bit.ly/2d6lcmv">http://bit.ly/2d6lcmv</a> Course Evaluation (92% recommendation): <a href="http://bit.ly/2bbLEel">http://bit.ly/2bbLEel</a>
Summer 2016	NSF New Computer Science Faculty Teaching Workshop, San Diego, CA
Summer 2011	<i>Teachers Assistant</i> , Grader, EEL 3135 Introduction to Signals and Systems, University of Florida
Spring 2011	<i>Teachers Assistant</i> , Grader, Lecturer (selected), EEL 3105 Analytical Methods in Electrical Engineering, University of Florida
Fall 2010	<i>Teachers Assistant</i> , Grader, EEL 3135 Programming for Electrical Engineers, University of Florida

## INDUSTRY EXPERIENCE

May 2014 – Present	<i>CEO and Co-Founder</i> , <b>1 Degree Technologies LLC</b> , Gainesville, FL <ul style="list-style-type: none"><li>Lead the company on designing infrastructure-free mobile ad-hoc social networks for disaster relief, emergency response, military applications, and general social networking.</li></ul>
Oct 2012 – Jan. 2013	<i>RF Architecture Intern</i> , <b>Intel</b> , Santa Clara, CA <ul style="list-style-type: none"><li>Conducted research and implementation utilizing Bluetooth 4.0 along with other sensors for accurate proximity detection.</li></ul>
May 2012 – Aug. 2012	<i>Graduate Intern</i> , Intel, Santa Clara, CA <ul style="list-style-type: none"><li>Part of the Intel Collaborators program. Project manager/engineer on a three person team that enabled one button touch gaming on wireless displays using C, C++, and C#. Also conducted research on Bluetooth 4.0 RSSI proximity detection.</li></ul>
Jun. 2010 – Aug. 2010	<i>Software Engineer Graduate Intern</i> , <b>Intel</b> , Santa Clara, CA <ul style="list-style-type: none"><li>Wrote code in an Intel proprietary language for Intel graphic cards to test cards performance and identify compiler &amp; runtime bugs.</li></ul>
Feb. 2007 – Aug. 2008	<i>Software Engineer Intern</i> , <b>Hewlett Packard</b> , Cupertino, CA <ul style="list-style-type: none"><li>Wrote test automation code using VB Script for HP Itanium Servers. Scripts tested HP's Software Management Software and made sure servers were reporting accurate system information.</li></ul>
Aug. 2006 – Feb. 2007	<i>Database Administrator</i> , <b>NASA AMES Research Center (ISSI Contractor)</b> , Moffett Field, CA <ul style="list-style-type: none"><li>Managed databases for the Hazardous Waste/Materials group using SQL. Databases were on apache servers and interacted with users through PHP, HTML, and CSS.</li></ul>
Jun. 2006 – Aug. 2006	<i>Firmware Engineer Intern</i> , <b>Hewlett Packard</b> , Vancouver, WA <ul style="list-style-type: none"><li>On the engine design team for HP's first business printer. Specifically worked with MIPIO (Memory &amp; Internet Protocol IO). Wrote test code in C and C++ to</li></ul>

test MIPIO communication between the engine and the formatter over PCI-Express.

Mar. 2005 – Aug. 2005 *Executive Support Intern, Hewlett Packard*, Cupertino, CA

- Technical support for HP Executive's and CEO's. Gained experience by working with a team and learning how to support hardware, software, smart phones, and network setup.

## TECHNICAL SKILLS

Programming Languages C and C++, Swift, Java, Python, Objective C, Matlab, Javascript, VB Script, Verilog, Assembly Language, LISP, SQL

Tools and Systems Xcode, Latex, NS3, VIM, ClearCase, Xilinx

Hardware FPGA's, Digital Interfacing, Embedded Systems

## HONORS AND AWARDS

2019 [University of Kentucky Inclusive Excellence Award](#)

2018 – 2020 University of Kentucky Department of Computer Science Faculty Fellowship

2015 – 2017 University of California Presidents Postdoctoral Fellowship

2016 NSF New Computing Faculty Teaching Institute (selected)

2015 The William R. Jones Most Valuable Mentor Award, Florida Education Fund McKnight Program

2015 Academic Careers Workshop for Underrepresented Participants Workshop (selected)

2015 Georgia Institute of Technology FOCUS Fellows Workshop (selected)

2014 University of Michigan NextProf Workshop (selected)

2014 3<sup>rd</sup> Place Future Faculty and Professional Technical Presentation, GEM Annual Board Meeting and Conference

2014 3<sup>rd</sup> Place Graduate Poster, ACM Richard Tapia Celebration of Diversity in Computing

2014 Travel Grant, ACM Richard Tapia Celebration of Diversity in Computing

2013 Travel Grant, IEEE Military Communications Conference

2005 – 2006 National Society of Black Engineers Chapter Executive Board Member of the Year

## PRESS/MEDIA

June 2019 UK Behind the Blue Podcast: UK's Corey Baker bridging the gap in computer science [[UKNow](#), [College of Engineering](#)]

2019 Office for Institutional Diversity presents Inclusive Excellence Awards [[UKNow](#), [College of Engineering](#)]

February 2019 Discovering you - engineering your world [[NBC News Learn](#)]

February 2019 University of Kentucky professor helping to bridge diversity gap in computer science department [[Spectrum News](#)]

February 2019 Successfully bridging the diversity gap in computer science [[UKNow](#), [College of Engineering](#)]

January 2019 Smart investments [[Kentucky Engineering Journal](#)]

December 2018 WKYT: Mayor Announces METRO C.A.T.S. Program at Charles Young Center [[UKNow](#), [College of Engineering](#)]

December 2018 Changing the atmosphere: recruiting diverse faculty at UK remains 'intentional' [[Kentucky Kernel](#)]

March 2018 Baker presenting at the National Society of Black Engineers (NSBE) National Convention to help graduate students succeed [[College of Engineering](#)]

February 2018 NSF/Mozilla Project selected for Wireless Innovation for a Networked Society Challenges [[Personal](#)]

### **ADVISING (Director of the [Network Reconnaissance \(NetRecon\) Lab](#))**

#### **Post-doc Researchers/Visitors**

2019 – 2019 Inema Orukari

#### **PhD Students**

2019 – Present Abdulaziz Alhomaidhi, MS  
2018 – Present Alyssa Donawa  
2018 – Present Xava Grooms  
2018 – Present Esther Max-Onakpoya

#### **MS Students**

2018 – Present Oluwafeyisayo Afolabi  
2017 – Present Oluwashina Madamori (Expected Fall 2019)

#### **BS Students**

2019 – Present Stephen Roberts  
2019 – Present De'Andre Gibbs  
2019 – Present Jachi Onuiha  
2018 – 2018 Lily Sutton  
2018 – 2018 Michelle Imarah  
2018 – Present Kenton Carrier  
2016 – 2017 Max Xing, BS (Now a Software Engineer at Apple)

### **FELLOWSHIPS**

2015 – Present	University of California Presidents Postdoctoral Fellowship	(~\$130K)
2014 – 2015	Florida Education Fund McKnight Dissertation Fellow	(~\$ 24K)
2012 – 2013	NSF SEAGEP Scholarship	(~\$ 5K)
2011 – 2012	NSF SEAGEP Scholarship	(~\$ 5K)
2010 – 2015	The National GEM Consortium Ph.D Fellowship	(~\$125K)
2010 – 2015	Intel Scholar (Included in GEM Fellowship)	
2008 – 2010	NSF LSAMP Bridges to the Doctorate Fellowship	(~\$ 80K)
2008 – 2009	National Society of Black Engineers Silicon Valley Scholarship	(~\$ 2K)
2004 – 2008	The Hewlett Packard Scholarship	(~\$ 40K)

### **OUTREACH, MENTORING, AND DIVERSITY RELATED SERVICES**

#### **Workshops**

- [U 19] **Baker C**, “Voices from the field,” The National GEM Consortium, University of Tennessee Knoxville, Audience: Undergraduate & graduate, September 2019
- [U 18] **Baker C**, Grant C, “Maximizing your degree: preparing for academia or industry,” University of Kentucky College of Engineering Graduate Campus Visit Program, Audience: Graduate, January 2019
- [U 17] **Baker C**, Grant C, “Maximizing your degree: preparing for academia or industry,” National Society of Black Engineers Region 6, Audience: Graduate, November 2018

- [U 16] **Baker C**, Grant C, "Maximizing your degree: preparing for academia or industry," University of Kentucky Graduate School, Audience: Undergraduate & Graduate, October 2018
- [U 15] **Baker C**, "Maximizing your degree: preparing for academia or industry," The National Society of Black Engineers, Region 6 Fall Regional Conference, Audience: Undergraduate & graduate, November 2017
- [U 14] **Baker C**, Calhoun E, "How to apply to graduate school," The National GEM Consortium, University of California San Diego, Audience: Undergraduate & graduate, October 2017
- [U 13] **Baker C**, Grant C, "Maximizing your degree: preparing for academia or industry," ACM Richard Tapia Conference for Diversity in Computing, Audience: Graduate & Postdoc, September 2017
- [U 12] **Baker C**, Grant C, "Maximizing your degree: preparing for academia or industry," The National GEM Consortium, Annual Board Meeting, Audience: Graduate, September 2017
- [U 11] **Baker C**, "#MajorKeys to writing a phenomenal research abstract," The National Society of Black Engineers, Region 6 Fall Regional Conference, Audience: High School, November 2016
- [U 10] **Baker C**, Berhe A, "How to fund graduate school," The National GEM Consortium, University of California Irvine, Audience: Undergraduate, October 2016
- [U 9] **Baker C**, "Maximizing your degree: preparing for academia or industry," National Society of Black Engineers, Region Six Leadership Conference, Audience: Undergraduate, August 2016
- [U 8] **Baker C**, Grant C, "Maximizing your degree: preparing for academia or industry," The National GEM Consortium, Annual Board Meeting, Audience: Graduate, August 2016
- [U 7] **Baker C**, "Closer to your dreams: pursuing college and choosing engineering," California Alliance of Minority Participation, Qualcomm Institute, Audience: Undergraduate, July 2016
- [U 6] **Baker C**, "Closer to your dreams: pursuing college and choosing engineering," University of California San Diego TRiO Program, San Diego High School, Audience: High School, July 2016
- [U 5] **Baker C**, "Closer to your dreams: pursuing college and choosing engineering," Nevada State College TRiO Program, Qualcomm Institute, Audience: High School, July 2016
- [U 4] **Baker C**, "Closer to your dreams: pursuing college and choosing engineering," Pathways in Education, University of California San Diego, Audience: High School, June 2016
- [U 3] **Baker C**, "Closer to your dreams: pursuing college and choosing engineering," California Student Opportunity and Access Program (Cal SOAP), San Diego Unified School District, Audience: High School, March 2016
- [U 2] **Baker C**, "Why graduate school?," The National GEM Consortium, University of South Carolina, Audience: Undergraduate, October 2015
- [U 1] **Baker C**, "Preparing for graduate school: Conducting undergraduate research," The National Society of Black Engineers, University of California San Diego Chapter, Audience: Undergraduate, October 2015

### **Blogs**

- [B 11] **Baker C**, "Bridge to the doctorate: where to apply for 2015," Road To PhD, <http://coreyebaker.com/blog>, April 2015
- [B 10] **Baker C**, "Conducting a literature search: becoming familiar with your research area," The National GEM Consortium, <http://www.gemfellowship.org/author/coreybaker/>, April 2015
- [B 9] **Baker C**, "March madness: deciphering admission letters & selecting the right graduate school," The National GEM Consortium, <http://www.gemfellowship.org/author/coreybaker/>, March 2015
- [B 8] **Baker C**, "The blue chip graduate student: making the most of your campus visitation," The National GEM Consortium, <http://www.gemfellowship.org/author/coreybaker/>, February 2015
- [B 7] **Baker C**, "Publishing: Targeting the right conferences and journals," The National GEM Consortium, <http://www.gemfellowship.org/author/coreybaker/>, January 2015
- [B 6] **Baker C**, "Selecting your top 10 graduate schools: apply and conquer," The National GEM Consortium, <http://www.gemfellowship.org/author/coreybaker/>, December 2014



- [B 5] **Baker C**, “’Tis the season to apply for funding,” The National GEM Consortium, <http://www.gemfellowship.org/author/coreybaker/>, November 2014
- [B 4] **Baker C**, Dunnavant J, “How leaks in the Black engineering pipeline affects diversity in industry,” Blacks in Engineering, <http://coreyebaker.com/blog>, August 2014
- [B 3] **Baker C**, “Selecting a graduate school,” Road To PhD, <http://coreyebaker.com/blog>, May 2014
- [B 2] **Baker C**, “Inspiring our youth,” Mentoring Our Future, <http://coreyebaker.com/blog>, April 2014
- [B 1] **Baker C**, “Dissertation advice,” Road To PhD, <http://coreyebaker.com/blog>, April 2014

### **Leadership Positions**

2015 – Present	Region Six (West Coast) Finance Zone Advisor, National Society of Black Engineers
2016 – 2017	National Treasurer Emeritus, National Society of Black Engineers
2014 – 2015	Convention Planning Committee Finance Zone Advisor, National Society of Black Engineers
2014 – 2015	National Treasurer Emeritus, National Society of Black Engineers
2012 – 2014	National Treasurer, National Society of Black Engineers <ul style="list-style-type: none"> <li>• Administered operating budget of ~\$10M, additional ~\$10M in reserves, restructured and introduced financial sustainable models, reduced inefficient budgeting by ~\$115K, increased programmatic academic spending by 300% without increasing overall expenses</li> </ul>
2009 – 2010	Region Six (West Coast) Chairperson Emeritus & Parliamentarian, National Society of Black Engineers
2009 – 2010	Chapter Co-Advisor, CAMS NSBE Jr. National Society of Black Engineers
2008 – 2009	Region Six (West Coast) Chairperson, National Society of Black Engineers
2007 – 2008	Region Six (West Coast) Treasurer, National Society of Black Engineers
2007 – 2008	Chairperson, San Jose State University African American Commencement Committee
2006 – 2007	Chapter Pre College Initiative Chair, National Society of Black Engineers
2005 – 2008	Chapter Telecommunications Chair, National Society of Black Engineers
2004 – 2005	Chapter Senator and Historian, National Society of Black Engineers

### **SERVICE**

#### **Organizing Committees**

1. Student Travel Grant Chair, Organizing Committee, ACM International Workshop on Mobile Computing Systems And Applications (HotMobile), Austin, TX (2020)

#### **Technical Committees**

1. Member, Technical Program Committee, IEEE International Conference on Computer Communications (INFOCOM), Dublin, Ireland (2020)
2. Member, Technical Program Committee, Symposium SAC Symposium Social Networking Track, IEEE International Conference on Communications (ICC), Kansas City, MO (2020)
3. Member, Technical Program Committee, IFIP Wireless On-demand Network systems and Services Conference (WONS), Wengen, Switzerland (2019)
4. Member, Technical Program Committee, IEEE International Conference on Computer Communications (INFOCOM), Paris, France (2019)
5. Member, Technical Program Committee, Symposium SAC Symposium Social Networking Track, IEEE International Conference on Communications (ICC), Shanghai, China (2019)
6. Member, Technical Program Committee, IEEE Local Computer Networks (LCN), Chicago, IL USA (2018)

7. Member, Technical Program Committee, IFIP Wireless On-demand Network systems and Services Conference (WONS), Isola 2000, France (2018)
8. Member, Technical Program Committee, Symposium SAC Symposium Social Networking Track, IEEE International Conference on Communications (ICC), Kansas City, MO (2018)
9. Member, Technical Program Committee, ACM Embedded Wireless Systems and Networks (EWSN), Madrid, Spain (2018)
10. Member, Technical Program Committee, IEEE Local Computer Networks (LCN), Singapore (2017)
11. Member, Technical Program Committee, Symposium SAC Symposium Social Networking Track, IEEE International Conference on Communications (ICC), Paris, France (2017)

**Session Chair/Moderator**

1. Adhoc and Sensor Networks (AHSN2 Vehicular Networks I), IEEE Global Communications Communications Conference (GLOBECOM), San Diego, CA (2015)
2. Security (I-1 Design and Next Generation Networks I), IEEE Global Communications Communications Conference (GLOBECOM), San Diego, CA (2015)
3. Building Pathways that Promote Pursuit/Persistence in Engineering (M540), Minorities in Engineering Division, ASEE 122 Annual Conference & Exposition, Seattle, WA (2015)

**Reviewer for Conferences and Journals**

1. IEEE Wireless Communications Magazine (WCM 2017)
2. IEEE International Conference on Communications (ICC 2017), Paris, France
3. IEEE International Conference on Computer Communications (INFOCOM 2017), Atlanta, GA
4. IEEE International Conference on Computer Communications (INFOCOM 2014), Toronto, Canada
5. IEEE Global Communications Conference (GLOBECOM 2013), Atlanta, Georgia
6. IEEE Military Communications (MILCOM 2012), Orlando, FL

**University/Local Community**

2019 – Present	Chair, Diversity of Inclusion Subcommittee, College of Engineering, University of Kentucky, Lexington, KY
2019 – Present	Member, Committee on Fellowships & Traineeships, University, University of Kentucky, Lexington, KY
2019 – Present	Member, Media Committee, Department of Computer Science, University of Kentucky, Lexington, KY
2018 – Present	Member, Graduate Diversity Advisory Council Committee, Graduate School, University of Kentucky, Lexington, KY
2018 – Present	Advisor, METRO CATS Computer Access to Succeed, City of Lexington & University of Kentucky, Lexington, KY
2018 – 2019	Member, Broadening Participation Committee, Department of Computer Science, University of Kentucky, Lexington, KY

**Memberships**

2018 – Present	Member, Association for Computing Machinery (ACM)
2017 – Present	Member, Institute of Electrical and Electronics Engineers (IEEE)
2009 – Present	Member, Kappa Alpha Psi Fraternity Inc.
2007 – 2008	Member, The Collegiate 100
2004 – 2008	Member, Society of Computer Engineers
2003 – Present	Member, National Society of Black Engineers (NSBE)

**CONFERENCE & MEETING PARTICIPATION**

2016	NSBE Region 6 Fall Regional Conference, Denver, CO
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2016 The Compact for Faculty Diversity Institute on Teaching and Mentoring, Tampa, FL.

2016 GEM Annual Board Meeting and Conference, Miami, FL

2016 NSF New Computer Science Faculty Teaching Workshop, San Diego, CA

2016 Stochastic Networks Conference, San Diego, CA

2016 NSBE National Convention, Boston, MA

2016 Information Theory and Applications Workshop, San Diego, CA

2015 IEEE Global Communications Conference, San Diego, CA

2015 NSBE Region 6 Fall Regional Conference, Riverside, CA

2015 McKnight Doctoral Annual Fellows Meeting, Tampa, FL

2015 The Compact for Faculty Diversity Institute on Teaching and Mentoring, Washington, D.C.

2015 NSBE National Convention, Anaheim, CA

2015 ACM Richard Tapia Celebration of Diversity in Computing, Boston, MA

2015 Georgia Institute of Technology FOCUS Fellows Workshop, Atlanta, GA

2014 NSBE Region 6 Fall Regional Conference, San Francisco, CA

2014 McKnight Doctoral Annual Fellows Meeting, Tampa, FL

2014 The Compact for Faculty Diversity Institute on Teaching and Mentoring, Atlanta, GA

2014 University of Michigan NextProf Workshop, Ann Arbor, MI

2014 GEM Annual Board Meeting and Conference, San Diego, CA

2014 ASEE Florida Diversity Summit, Gainesville, FL

2014 McKnight Summer Research & Writing Institute, Tampa, FL

2014 NSBE National Leadership Conference, Ann Arbor, MI

2014 NSBE National Convention, Nashville, TN

2014 ACM Richard Tapia Celebration of Diversity in Computing, Seattle, WA

2013 IEEE Military Communications Conference, San Diego, CA

2013 NSBE Region 6 Fall Regional Conference, Los Angeles, CA

2013 NSBE Region 3 Fall Regional Conference, Lexington, KY

2013 NSBE Professional Development Conference, Atlanta, GA

2013 NSBE Region 5 Leadership Conference, Kansas City, MO

2013 NSBE Region 6 Leadership Conference, Sacramento, CA

2013 NSBE Alumni Summit, San Juan, PR

2013 NSBE Region 6 Transition Meeting, San Ramon, CA

2013 NSBE National Leadership Conference, New London, CT

2013 NSBE National Convention, Indianapolis, IN

2012 IEEE International Conference on Computer Communications (INFOCOM), Orlando, FL

2012 NSBE Region 4 Fall Regional Conference, Chicago, IL

2012 NSBE Region 2 Fall Regional Conference, Norfolk, VA

2012 NSBE Region 1 Fall Regional Conference, Parsippany, NJ

2012 NSBE Professional Development Conference, Houston, TX

2012 NSBE Alumni Summit, Las Vegas, NV

2012 NSBE National Convention, Pittsburgh, PA

2011 The Compact for Faculty Diversity Institute on Teaching and Mentoring, Atlanta, GA

2011 NSBE National Convention, St. Louis, MO

2010 NSF Joint Annual Meeting, Washington, DC

2010 NSBE National Convention, Toronto, Canada

2009 NSBE Region 6 Fall Regional Conference, Long Beach, CA

2009 NSBE Region 6 Leadership Conference, San Jose, CA  
2009 NSBE Region 6 Summer Camping Conference, Pomona, CA  
2009 NSBE Region 6 Transition Meeting, San Ramon ,CA  
2009 NSBE National Convention, Las Vegas, NV  
2008 NSBE Region 6 Fall Regional Conference, Redmond, WA  
2008 NSBE Region 6 Leadership Conference, San Jose, CA  
2008 NSBE Region 6 Transition Meeting, San Ramon ,CA  
2008 NSBE National Convention, Orlando, FL  
2007 NSBE Region 6 Fall Regional Conference, Redmond, WA  
2007 GEM Annual Board Meeting and Conference, Las Vegas, NV  
2007 NSBE Region 6 Leadership Conference, Tempe, AZ  
2007 NSBE Region 6 Summer Camping Conference, Irvine, CA  
2007 NSBE Region 6 Transition Meeting, San Ramon ,CA  
2007 NSBE National Convention, Columbus, OH  
2006 NSBE Region 6 Transition Meeting, San Ramon ,CA  
2006 NSBE National Convention, Pittsburgh, PA  
2005 NSBE Region 6 Fall Regional Conference, Los Angeles, CA  
2005 NSBE Region 6 Leadership Conference, Las Vegas, NV  
2005 NSBE National Convention, Boston, MA  
2004 NSBE Region 6 Fall Regional Conference, Sacramento, CA