

## **Catrina A. Campbell, MSc.**

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**Objective:** Accomplished analytical biochemist with nearly 6 years teaching chemistry at the university level, proven ability to coordinate lab responsibilities, write technical documents, and deliver effective presentations to a wide variety of audiences seeking full-time role as a Chemistry Professor.

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### **Employment History**

**Lonestar College-Kingwood & Harris Campuses**

**Houston Community College-Stafford & Alief Campuses**

**San Jacinto Community College-Central & South Campuses**

*Adjunct Chemistry Professor*

*9/2017 to Present*

- Currently teaching 3 General Chemistry I class at San Jacinto and Lonestar campuses. Taught 3 semesters of General Chemistry II as well as 3 semesters of Introduction to Chemistry.
- Develop and implement teaching methodologies, syllabi, formative and summative assessments, and presentation delivery methods for approximately 70 students with different education backgrounds and learning styles.
- Submit college forms, training certifications, and maintain professional relationships with students and colleagues.

### **Texas Department of Public Safety**

*Forensic Scientist I*

*2/2015 to 12/2016*

- Responsible for quality control of sophisticated DNA amplification kits used in 100s of cases per year using DNA extraction, quantification, and characterization. Familiar with ABI instrumentation: 7500 qPCR, 3130 XL & 3500 capillary electrophoresis, as well as JTrax™ (LIMS) and Genemapper™ software.
- Prepared and conducted quality control for critical reagents used in biological analysis; received, processed, and stored evidence; purchased and managed consumable inventory, and provided CODIS support.
- Saved 30% (~\$10,000) on consumable items for the Austin DNA Section, and consequently, served as point of contact to construct a bid proposal as well as coordinate a statewide effort to reduce lab costs.
- Wrote the technical manual for the DNA Evidence Technician position.

### **Huston-Tillotson University**

*Adjunct Professor-Chemistry*

*Fall 2015*

- Prepared lesson plans and delivered presentations for Organic Chemistry I for 9 students.
- Developed, implemented, and executed curriculum for 10 labs for the fall semester.
- Wrote, proctored, and graded exams, quizzes, and extra credit.

### **University of Virginia**

*Graduate Teaching Assistant*

*8/2012 to 8/2014*

- Independently researched, developed, and optimized purification Standard Operating Procedures for 4 different protein constructs using high throughput methods, PCR, cell culture, aseptic technique, IMAC and FPLC for testing and analysis.
- Advised, motivated, and facilitated teamwork with 28 senior students in a guided inquiry laboratory setting resulting in 2 peer reviewed journal articles.

## **The University of Texas at Arlington**

*Research Assistant*

*1/2009 to 6/2012*

- Managed 3 projects simultaneously, resulting in a peer reviewed journal article and poster presentation at the American Chemistry Society national meeting, 2011.
- Developed and optimized a novel sample preparation methodology for breast milk iodinalysis using wet chemistry and Inductively Couple Plasma Mass Spectrometry (ICP-MS).
- Recruited mother/infants pairs for perchlorate study as well as introduced informed consent.
- Taught ~200 students general, nursing, and organic chemistry as an Supplemental Instruction Leader, Teaching Assistant, and Chemistry Tutor.

## **Publications**

- Desilva, K., Jarrar, Z., McCalla, A., Okwei, E., Sargent, M., Yi, J., **Campbell, C.**, Schleckman, E., Mura, C., Price, C., and Columbus, L. "Kinetic Assays Establish 3GWQ as a D-Serine Deaminase." The Open Protein Structure Annotated Network (TOPSAN) (**2014**), <http://www.topsan.org/Proteins/JCSG/3gwq>
- Bederman, A., Eklund, E., Green, C., Hall, V., Kramer, J., Lambertson, K., Tan, S., **Campbell, C.**, Schleckman, E., Mura, C., Price, C., and Columbus, L. "Kinetic Assays Establish 3DZZ is a Cystathionine  $\beta$ -Lyase." The Open Protein Structure Annotated Network (TOPSAN) (**2014**), <http://www.topsan.org/Proteins/JCSG/3dzz>.
- Shelor, P.C., Kirk, A.B., Dasgupta, P.K., Kroll, M., **Campbell, C.**, & Choudhary, P.K. Breastfed Infants Metabolize Perchlorate. Environ. Sci. Technology (**2012**) 46, 5151-5159. DOI: 10.1021/es2042806.
- Shelor, P., **Campbell, C.**, Kroll, M., Dasgupta, P.K. Smith, T. L. ,Abdalla, A. Hamilton, & M. Muhammad, T.W. Fenton Digestion of Milk for Iodinalysis, Journal of American Chemistry Society Analytical Chemistry (**2011**) 83, 8300-8307. DOI: 10.1021/ac202165e.

## **Other Employment**

### **Resulté Universal/Spherion**

*Recruiter/I.T. Full Desk*

*5/2006 to 8/2007*

Successfully identified, recruited information technology candidates. Achieved Bronze club (>\$15,000 revenue) in Q4 2006 and Silver club (>\$25,000 revenue) in Q2 in 2007.

### **Randstad Staffing/Mosaic**

*Territory Administrator/ Recruiting Specialist (Contract)*

*9/2005 to 4/2006*

Remotely managed calendars for 8 regional managers, conducted on boarding activities, HR generalist duties, and resolved payroll disputes. Identified and recruited merchandisers for "big box" stores nationwide.

### **Yellow Book**

*Account Representative*

*11/2003 to 8/2005*

Secured new and maintained existing customers, developed and delivered product presentations, and built relationships by identifying and meeting business needs.

### **Oklahoma State University**

*Head Coach Women's Track and Cross-country*

*8/1997 to 7/2003*

Implemented a successful strategy to identify, recruit, and attract outstanding prospective student-athletes both international and domestic. Managed 2 direct reports, ~200 athletes, and \$3.5 million dollars which included but not limited to salaries, travel (international and domestic), equipment, and served as point of contact for vendors. Produced 3 World Championship participants, 5 Top 25 Team finishes, 27 All-Americans, and 5 nationally recognized All-Academic Cross-country Teams.

## **Professional Organizations**

- American Chemistry Society-Greater Houston Section (ACS)
- Association for Women in Science (AWIS)

## **Community Service**

### **American Chemical Society – Greater Houston Chapter**

*3/2017 to Present*

#### *Director*

#### *Awards Committee Member, Seminar Speaker Series*

Implemented strategy to generate and enhance applicant pool for chemistry teacher awards on the high school and junior college level. Proctor exams for high school scholarship programs.

### **American Chemical Society (UT-Arlington-Student Chapter)**

*8/2010 to 5/2012*

#### *Treasurer*

Raised \$12,500 for an endowed scholarship. Collected over 800 cans for Arlington Mission Food Pantry. Organized and executed 1<sup>st</sup> Annual Poster Symposium for undergraduate chemistry research projects.

### **New Waverly Baptist Church**

*Fall 2007*

#### *Helping the Homeless Program*

Served food to homeless and indigent people in Dallas, TX.

### **American Stroke Association**

*9/2004 to 1/2005*

#### *Fundraiser*

Raised over \$4500 for Memphis, TN chapter by training for and finishing a ½ marathon.

### **Court Appointed Special Advocate (CASA)**

*8/1998 to 8/2000*

#### *Board of Directors*

Determined the mission and purpose of the organization, supported and evaluated the chief executive officer. Provided financial oversight and organized fund-raising events.

## **Education**

M.S. Chemistry, University of Virginia, Charlottesville, VA (GPA 3.30)

*12/2014*

***Thesis:*** Cloning, Expression, and Biophysical Characterization of Truncated Inclusion Protein A (IncA) from *Chlamydia trachomatis*, **Advisor Linda Columbus**

B.S. Biological Chemistry, University of Texas at Arlington, Arlington, TX, Cum Laude

*5/2012*

M.A. Health Promotion, University of Alabama, Tuscaloosa, AL (3.55)

*8/1992*

B. A. Molecular Cellular Developmental Biology, University of Colorado, Boulder, CO

*8/1989*