**David H. Gainer**

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**PROFILE**



* **United States Fulbright Scholar to Spain and entry-level Biochemist.** Uses key strengths in strategic thinking and idea generation to resolve unanswered questions about the mechanisms, prevention, and treatment of disease and healthcare delivery. Experience includes 2 years of undergraduate research in synthesis, peptidomimetics, Hepatitis C Virus, and basic pharmacophore design.
* **Strong Leader and future Medical Student.** Encourages a team-oriented approach to health maintenance and disease prevention in the individual patient, as well as both the immediate and global communities using multidisciplinary experience in Leadership Studies and over 3 months of full culture immersion experience.
* **Experienced Promoter for International Education**. Utilize skills in public speaking and presentation design to create workshops covering study abroad and international education, cross-cultural communication, and how to present skills acquired from global experiences in the job market. Articles featured in *MTSU Honor’s Edition* and spotlighted in national study abroad program catalogs.



**EDUCATION**



**Middle Tennessee State University Honors College*****Murfreesboro, TN***

***Bachelor of Science in Biochemistry Cumulative GPA 3.78/4.00, May 2012***

***Bachelor of Arts in Foreign Language May 2012***

* Thesis: “Synthesis of Peptidomimetic Inhibitor of Hepatitis C Virus (HCV) NS3-4a Protease with Cyclopropyl Core.”
* University Honors College Graduate with magna cum laude distinction.
* Pre-medical and Spanish Language Concentrations.
* Minors in Business Administration and Leadership Studies.
* Phi Kappa Phi and Omicron Delta Kappa national honor societies. ***May 2010-Present***
* Selected as 1 of 6 Paul W. Martin Sr. Honors Scholarship recipients out of total Honors student body. ***2009-2011***

**Pontifical Catholic University of Valparaíso*****Valparaíso, Chile***

***Study abroad and cultural immersion experience*** ***May 2010 - Aug 2010***

* Acquired **written and spoken Spanish proficiency**, and skills in cultural responsiveness, adaptation, and cross-culture communication.



**RESEARCH EXPERIENCE**



**Graduate Fulbright Fellow in Computational Biology*****Barcelona, Spain***

***Institute for Research in Biomedicine*** ***September 2012- Present***

* Selected as 1 of 26 post-baccalaureate research fellowship recipients in the United States.
* Research effects of synthetic, non-natural cytosines when inserted into DNA on DNA, chromatin structure, and protein-protein interactions.
* Utilize various molecular modeling programs such as VMD and NAMD to characterize molecular dynamic interactions

**Research Assistant, Drug Design and Synthesis*****Murfreesboro, TN***

***Middle Tennessee State University*** ***Aug 2010 – May 2012***

* Presented poster at ACS national meeting in March 2012 San Diego, CA.
* 1st place poster at Tennessee Academy of Science 121st annual meeting October 2011.
* Listed as author on “Three Step Synthesis of Cyclopropyl Peptidomimetics,” *Org. Lett*., 2011, 13 (18), pp 4879–4881.
* 1st place undergraduate poster for College of Basic and Applied Sciences at 2011 MTSU Scholar’s Day.

**LABORATORY SKILLS AND TECHNIQUES**

NMR Spectroscopy

HPLC

Optical Rotation

Flash Column Chromatography

Thin Layer Chromatography

Gas Chromatography/ Mass Spectroscopy

Gel Electrophoresis

Western Blotting

PCR Analysis

Microscopy

Immunofluorescence Assay

**ADDITIONAL EXPERIENCE**



**Peer Career Advisor/Intern *Murfreesboro, TN***

***MTSU Career Development Center Aug 2011-June 2012***

* Collaborate in team of 5 to critique resumes for all Colleges and advise students during walk-in hours.
* Develop public relations and marketing campaigns for Career Development Center including monthly newsletter features.
* Present Career Development topics such as interview skills and resume writing to classrooms and student organizations.

**MTSU Global Ambassador Intern*****Murfreesboro, TN***

***International Studies Abroad (ISA), Inc*.*****Jan 2011 – May 2012***

* Promoted international education with interactive and informative presentations and other student engagement campaigns to campus of over 24,000 students.
* Featured in 2011-2012 ISA national program catalogs as Student Spotlight for programs in Chile.
* Recognized as Outstanding Student of the Year in International Affairs for being the most globally minded student citizen.

**Tutor and Mentor*****Murfreesboro, TN***

***MTSU Student Athlete Enhancement Center******Feb 2009 – May 2011***

* Gained skills in interpersonal communication through teaching study techniques and time management to at-risk students.
* Assisted over 40 student athletes with additional instruction in general education, natural sciences, business and Spanish.
* Consistently have had students improve by 3 letter grades within a single semester.



**LEADERSHIP STUDIES AND INVOLVEMENTS**



Leadership Development program that utilizes an interdisciplinary curriculum of leadership theory and experiential learning to cultivate outstanding leaders possessing knowledge and skills who promote success in both individual and group environments.

**SELECTED COURSEWORK AND AREAS OF EXPERTISE**

Interpersonal & Organizational

Communication

Conflict Resolution

Cross-Cultural Communication

Strategic Thinking & Planning

Idea Generation & Achieving

Goal Setting & Achieving

Team Building

Management

Organizational Structure

**MTSU Charter Member *Murfreesboro, TN***

***Omicron Delta Kappa National Leadership Honors Society Aug 2009- May 2012***

* Contributed to key service activities and recruitment endeavors to cultivate initial leader group image to obtain University Charter and establish the Chapter.

**Natural Sciences Editor *Murfreesboro, TN***

***Scientia et Humanitas Journal of Student Research*** ***Aug 2009 – Jan 2012***

* Utilized marketing techniques such as establishing social media presence to market and promote journal submissions.
* Reviewed and critiqued scientific research papers submitted in Natural Sciences for publishing.
* Participated in editorial team development of the Journal’s inaugural issue of May 2011.

**President*****Murfreesboro, TN***

***MTSU Honors Student Association Aug 2008 - May 2011***

* Organized developmental workshops and events with Honors College staff for Honors College students.
* Established annual team building retreat to recruit new members and improve group dynamics that resulted in > 200% membership growth over a 3-year period.
* Redeveloped organization structure to improve group dynamics by writing Constitution and defining officer capacities.

**Rank Leader*****Murfreesboro, TN***

***MTSU Band of Blue******Aug 2008 - Aug 2010***

* Instructed Alto Saxophone section in developing marching skills and assisted leadership team with music technique.
* Motivated members of section to consistently perform at high levels.
* Encouraged increase in size of section over two seasons from 33 to 52 members.