

Zachary S. Breitbach, AbbVie Inc.

I. Education

Ph.D. Chemistry, The University of Texas at Arlington (Prof. Daniel W. Armstrong advising) – 2010.

BS: Chemistry, Clarke University (formerly Clarke College) – 2005.

II. Professional Positions

2016-present: Sr. Scientist II, AbbVie Inc., North Chicago, IL.

2010-2016: Research Engineering Scientist Associate V, The University of Texas at Arlington, Arlington, TX.

2010-2016: Head Research Scientist, Co-founder, AZYP, LLC, Arlington, TX.

III. Awards, Recognition, and Notable Service

2018 Named to the Top 40 Under 40 poser list and featured on the cover of *The Analytical Scientist*.

2018 Named to the Chirality Conference international executive committee.

2018 Awarded LCGC's 2018 Emerging Leader Award in Chromatography.

2018 Named to editorial advisory board of LCGC.

2018 Named to editorial advisory board of *Separation Science Plus*.

2017 Awarded the ACS Satinder Ahuja Award for Young Investigators in Separation Science.

2016 Csaba Horváth Young Scientist Award finalist.

2015 Clarke University "Distinguished Alumni Rising Star" Award.

2015 Research featured on the cover of *Analytical Chemistry* September 15, 2015 issue.

2015 Named to editorial advisory board of *Journal of Liquid Chromatography and Related Technologies*.

2015 Served as member of the local organizing committee for The 39th International Symposium on Capillary Chromatography & The 11th GCxGC Symposium.

2014 Research featured on the cover of *LCGC North America* September 2014 issue.

2014 Analytical Session Organizer and Chair, 247th ACS National Meeting, Dallas, TX.

IV. Research Interests

-Chromatographic stationary phase development (GC and HPLC, both chiral and achiral).

-Study and design of novel hardware for chromatographic systems.

-Applications of separation science.

-Development of mass spectroscopic techniques for the analysis of trace contaminants.

-The use and application of ionic liquids in analytical chemistry.

-Study of illicit drugs, controlled substances, and other abused substances.

V. Patents

"Compositions and Methods for Cyclofructans as Separation Agents."

"New Ultrahigh Efficiency, Superficially Porous (SPP) Chiral Phases for Liquid Chromatography."

"High Efficiency, Ultra-Stable, Bonded Hydrophilic Interaction Chromatography (HILIC) Matrix on Superficially Porous Particles (SPPs)."