

**Daniel A. Carlson**  
University Alaska Fairbanks, Chemistry Department  
PO Box 2934  
Fairbanks, AK 99775  
(907) 474-2436  
email: [fsdac8@uaf.edu](mailto:fsdac8@uaf.edu)

---

- Education:** University Alaska Fairbanks, Ph.D. Environmental Chemistry (Fall 2005- present)  
Loyola University Chicago, B.S. Environmental Chemistry, with honors (May 2005)
- Research Experience:** Investigating halogen snow chemistry at University Alaska Fairbanks (2005-present)  
Ozone trend analysis at Colorado University Institute for Arctic and Alpine Research, with Detlev Helmig (2004-2005)  
GC-MS research of atmospheric organic aerosols at University of Alaska Fairbanks, NSF REU, with Cathy Cahill (2004).  
LC-MS research of atmospheric organic aerosols at Loyola University, with Martina Schmeling. (2004 - 2005).
- Published Articles:** Simpson, W. R., D. Carlson, G. Hoenninger, T. A. Douglas, M. Sturm, D. K. Perovich, and U. Platt (2007), First-year sea-ice contact predicts bromine monoxide (BrO) levels better than potential frost flower contact, *Atmos. Chem. Phys.*, 7, 621 – 627.  
Helmig, D., S.J. Oltmans, D. Carlson, J-F Lamarque, A. Jones, C. Labuschangne, K. Anlauf, K. Hayden (2006), A review of surface ozone in the polar regions, *Atmospheric Environment*, 41, 5138-5161.
- Work Experience:** Teaching assistant for general chemistry at University Alaska Fairbanks (2005-2006)
- Activities:** Committee member for the University Alaska Fairbanks International Polar Year Young Researcher's Network (2006-present)
- Awards/Honors**
- International Polar Year fellowship through the Cooperative Institute for Arctic Research (2007)
  - Scholar athlete award, Loyola University Chicago (2005)
  - Deans list every semester of undergraduate study (2001-2005)
  - Robert A. Mode scholarship for academics in chemistry (2004)
  - Member of Alpha Sigma Nu Jesuit Honor Society (2004-present)
  - Member of the Golden Key Honors Society (2004-present)
  - Cassaretto scholarship for academics in chemistry (2003)