

# Andrew Kobach



**Graduate Institution:** Northwestern University

**Location:** Evanston, IL

**Graduate Discipline:** High Energy Physics

**Hometown:** Milwaukee, WI

## Research Interests:

*I currently work on measuring the anomalous Z-gamma coupling parameter at Fermilab's  $D\bar{0}$  experiment using  $Z(\gamma)\rightarrow l\bar{l}+\gamma$  events, an analysis which will soon meet its completion. I have also begun theoretical work on electroweak-based extensions to the Standard Model. Other interests include the foundations of information theory and its implications for fundamental physics.*

## About me:

*I began research as an undergraduate with Prof. Michael Hildreth at the University of Notre Dame performing analyses for the  $D\bar{0}$  experiment, which quickly turned into my favorite activity. While I have just finished my first year of graduate school working with Prof. Heidi Schellman at Northwestern University on electroweak processes at the Tevatron, I have an unavoidable love for particle theory, especially gauge theories and symmetry breaking. I have recently begun exploring related theoretical topics with Prof. Ian Low.*

*I hope to one day become a professor; I am fascinated by how we come to learn concepts, especially how we link concepts from one to another: a process which is necessarily individualistic. I hope to live to see the day when reform is made of how mathematics and science is taught in high schools.*

*Beyond research, I spend most of my time reading and sorting through my thoughts. I am an avid classical pianist, with a quasi-obsession with Bach, Beethoven, and Brahms.*



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science