

# Fred Kontur

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**OBJECTIVE:** A postdoctoral position in a research laboratory or an industrial position in research and development.

## EDUCATION

Ph.D., Physics, Rice University, Houston, TX, 2005

M.S., Physics, Rice University, Houston, TX, 2000

B.S., Physics, University of Pittsburgh, Pittsburgh, PA, 1997

## RELEVANT SKILLS

- Ultra-High Vacuum Systems
- Fiber-Amplifier Lasers
- Electrostatic Ion Optics
- Electron Detection Tools
- C++
- Web Programming – XHTML, CSS, JavaScript
- Data Analysis/Modeling

## SELECTED ACCOMPLISHMENTS

### Research

- Doctoral Research
  - Settled longstanding debate over ion neutralization mechanism at metal surfaces.
  - Discovered unexpected effects at frozen xenon and krypton surfaces.
- Master's Research
  - Achieved factor of 5 increase in experiment's ion beam current.
  - Designed sample manipulator capable of cooling metal sample with liquid helium.

### Communication

- Consistently earned high evaluations in 6 years of graduate teaching.
  - Won Outstanding Graduate Student Teacher Award in 2002.
- Presented at 12 scientific conferences and defended 2 theses.
  - Won Best of Session Presentation Award for 2005 Rice Quantum Institute Colloquium.

### Leadership

- Oversaw 10-person cast and crew as producer of the full-length play "Free Will and Wanton Lust" by Nicky Silver.