

CAREER ACCELERATION NETWORK®

Straddles the line between the sober format of a CV and the action-orientation of a résumé:

PROFILE:

Hands-on multidisciplinary PHD candidate skilled in **EXPERIMENTAL DESIGN, DEVICE PROTOTYPING, and INSTRUMENT DEVELOPMENT**

- Innovator in emerging technologies, with a strong chemistry and microfluidics background
- Energetic leader and team player capable of working independently and delivering on strict timelines
- Expert in technology transfer and adapting existing methodologies to unexplored formats

EDUCATION:

PHD (anticipated), September 2006

ANALYTICAL BIOCHEMISTRY - Advisor Jane Xavier, PhD

UNIVERSITY OF NORTH CAROLINA

2001-PRESENT

BS (*cum laude*), May 2001

Majors in BIOCHEMISTRY AND PHILOSOPHY, Minors in MATH AND PHYSICS

Special Jesuit Liberal Arts (SJLA) Program - full Ignation scholarship

LOYOLA COLLEGE

1997-2001

TECHNICAL EXPERTISE:

▪ Device design/fabrication	▪ Instrument development/troubleshooting	▪ Fluorescence spectroscopy	Analytical separations
▪ Data acquisition and processing	▪ LabVIEW programming	▪ AutoCAD/Adobe Illustrator	▪ CNC machining/G-code programming

RESEARCH EXPERIENCE:

MICROFLUIDIC RESEARCH, UNIVERSITY OF NORTH CAROLINA

JUNE 2001-PRESENT

- Conceived of, designed, fabricated, and tested prototype microfluidic devices
- Separated small molecules, proteins, and nucleic acids using capillary and microchip electrophoresis
- Developed an injection technique from nanoliter sample volumes using on-chip pumping
- Developed multicolor detection platform for laser-induced fluorescence
- Evaluated biological samples using integrated microdevice for DNA analysis

FORENSIC RESEARCH, UNIVERSITY OF NORTH CAROLINA

SEPTEMBER 2003 - JUNE 2006

- Developed multicolor DNA detection platform, instrumentation, and programming for short tandem repeat (STR) analysis used in human identification
- Developed solution isolation and flow control in microdevice for cell separation and DNA extraction
- Worked toward milestones and deliverables for proof-of-principle techniques and devices