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## EDUCATION

**Northeastern University**, Boston, MA

December 2012

*Bachelor of Science in Biochemistry & Minor in German Language and Culture*

**Extracurricular Activities:** Founder of NU German American Association, Member of NU American Medical School Association, Member of NU Biology Club & NU Biochemistry Club, NU Outdoors & Hiking Club

**Senior Capstone Project:** *Prevention of Herpes Simplex Virus Type 1 Encephalitis long-term neurological sequelae through viral gene-silencing*

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## LABORATORY EXPERTISE

- **Cell Culture:** Pipetting, centrifuging, aseptic technique, media preparation, cell counts, cell harvesting, cellular protein extraction, managing large amounts of immortal and primary cell lines, operation of a hypoxia chamber, bacterial cell heat fixing, gram staining, acid-fast staining
- **Animal Handling:** General care of mice & rat lab models; subcutaneous, intraperitoneal & intravenous injections; general anatomy & dissections; cardiac punctures for blood collection
- **Analytical Techniques:** Bradford-Lowery Protein Assays, SDS-PAGE Gel Electrophoresis, Titrations, Column Chromatography, Western blotting, Radioligand Competitive Binding Assays, Quantitative Real-Time PCR Multiplex Assays, Reverse Transcriptase PCR, Glycobiomarker Arrays, DNA & Protein Microarrays, Bomb Calorimetry
- **Lab Safety & Management:** General safety in BL2 & BL3 labs; general lab inventory management; operation of flow hoods; handling, storage & disposal of radioactive and infectious materials; operation of Geiger Counters & NaI Probes

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## COMPUTER EXPERTISE

- Windows Systems, Ubuntu Linux Systems, Microsoft Office Suite, Graphpad, Mathematica, ChemBioOffice, & GaussView
- Adobe Photoshop, Dreamweaver, & Reader; HTML, PHP, MySQL, & Microsoft Visual Basic; Website Design

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## WORK EXPERIENCE & INTERNSHIPS

**Molecular Insight Pharmaceuticals**, Cambridge, MA

Jan. 2012 – July 2012

*Research & Development Laboratory Assistant*

- Assisted research scientists by maintaining cultures of several prostate cancer cell lines for assays and animal injections.
- Proficient in the handling, injections with radioactive compounds, cancer cell lines, and dissections of small animal models.
- Collaborated with research & development team in the determination of potential new radio-pharmaceutical compounds.
- Observed radiochemists and organic chemists synthesize, radiolabel, and HPLC purify compounds for further testing.

**New York State Dept. of Health Wadsworth Center Viral Encephalitis Laboratory**, Albany, NY

Aug. 2011 – Sept. 2011

*Clinical Virology Laboratory Assistant*

- Accessioned patient bodily fluid specimens into the NYS Clinical Laboratory Information Management System database.
- Prepared patient specimens through standard & automated pipetting methods for the qRT-PCR assay detection of viral DNA.
- Collaborated with research scientists in the optimization of qRT-PCR assays for better detection of viral DNA in specimens.
- Observed research scientists utilize automated nucleic acid extractions, genome sequencing, and NCBI database querying.

**Brigham and Women's Hospital Dept. of Molecular Urology Laboratory**, Boston, MA

Jan. 2011 – Apr. 2011

*Molecular Urology Laboratory Assistant*

- Assisted research scientists maintaining cultures of ovarian and breast cancer cell lines for biomarker microarrays.
- Extracted & purified proteins from cancer patient serum & blood samples for concentration determination via Bradford assay.
- Researched and helped further develop proteomic biomarker microarrays used in the detection of cancer specific proteins.
- Interacted with similar researchers and research companies to verify the reproducibility of the microarray results.

**CVS/Pharmacy**, Delmar, NY

Aug. 2006 – Dec. 2008

*Lead Pharmacy Technician, CPhT*

- Assisted pharmacists in filling prescriptions, retrieving, counting, pouring, and measuring medications.
- Verified prescriptions from doctors, prepared insurance claims, and supervised other pharmacy technicians.
- Knowledgeable in pharmacology, health care business procedures, HIPPA, and leadership styles.
- Nationally Certified Pharmacy Technician – (Award by the Pharmacy Technician Certification Board)