

Edward Hess

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Education

MS in Human Computer Interaction

Georgia Institute of Technology, Atlanta, Georgia, May, 2002

GPA 4.0/4.0.

BA in Chemistry and Economics

University of Colorado, Boulder, Colorado, May, 1990

GPA 3.7/4.0.

Professional Experience

Self-Employed / Student

May 2002 - Present

Worked as a handyman performing odd jobs (painting, plumbing, tile, and general repair), as well as attending classes some semesters. Work also included some temporary assignments (clerical and assembly-type work).

Georgia Institute of Technology

Graduate Research Assistant

May 2001-May 2002

Part of a team developing interactive, web-based educational material to train biomedical engineering students in laboratory techniques.

- Developed storyboards and authored lesson content.
- Performed liaison duties between scientists and multimedia developers.
- Involved in design of user interface and interactions.
- Observed and interviewed scientists for requirements gathering and to validate lesson content.
- Performed initial user testing of completed lesson modules.

I worked for much of the '90s as an analytical biochemist in the biotechnology industry. Details about the technical skills I developed and my accomplishments in this field are listed below:

FeRx Inc.

Research Associate

1998-1999

- Developed RP HPLC methods for analysis of anti-tumor therapeutic agents used with the company's magnetically targeted drug delivery device.
- Characterized drug delivery device using DLS Particulate Analysis, UV-Vis Spectroscopy, and Total Carbon analysis.
- Wrote protocols and assisted in development of release assays for magnetically targeted drug delivery device.

Somatogen Inc.

Research Associate II, Research Associate III

1994-1997

- Conducted long-term stability analysis of a recombinant hemoglobin product using a variety of analytical techniques; including SE and RP HPLC, DLS and Light Obscuration Particulate Analysis, and UV-Vis Spectroscopy.
- Designed and executed a study of the effect of ascorbic acid and residual oxygen on the stability of recombinant hemoglobin, characterized primarily by HPLC.
- Assisted in the development of an in-line tryptic mapping method using an immobilized trypsin column in conjunction with RP HPLC.

Synergen Inc.

Research Assistant, Research Associate

1990-1994

- Purified degradation products of rhIL-1ra by IE, SE, and RP HPLC. This included development of specialized HPLC methods and automation of fraction collection.
- Developed peptide mapping methods for detailed characterization of chemical modifications in rhIL-1ra degradation products.
- Performed a variety of analyses on purified degradation products, including SDS-PAGE, IEF and native gels.
- Analyzed and interpreted MS (mass spectrometry) and tandem MS data.
- Wrote protocols and conducted research stability studies of rhIL-1ra, primarily by IE, SE, and RP HPLC.

Skills

- Experience with storyboarding and computer-based and paper-based prototyping.
- Strong general and technical writing ability.
- Experience with field methods (contextual inquiry) such as interviewing and observation.
- Experience with task analysis and heuristic analysis.
- Applications & Programming: Director/Lingo, HTML/CSS, Javascript, Freehand, Illustrator, Photoshop, Dreamweaver, Soundforge, Quark, Visio, MS Office (Word, Excel, Powerpoint).
- Platforms: Windows and Mac OS, some exposure to Solaris.

Awards

- Phi Beta Kappa
- Spring Scholar Award
- Dean's Scholar Award
- UROP (Undergraduate Research Opportunities Program) Grant Recipient
- Dean's List (several semesters)

Coursework

HCI / Human Factors Related

Engineering Psychology, Human Computer Interaction I & II, Sensation and Perception, Research Methods, Cognitive Science, Educational Technology, Introduction to Design, Computer Audio, Introduction to Multimedia, Technical Writing, Information Visualization

Significant undergraduate level coursework in the following:

Chemistry: (Organic I,II , Inorganic, Physical I,II,III, Analytical)

Economics: (Microeconomics, Macro, Environmental Econ., Econ. Statistics, Money & Banking)

Mathematics: (Calculus I,II, & III, Diff. Equations & Linear Algebra, Probability, Statistics, Game Theory)

Natural Science: (MCD Biology I,II, Biology of the Cancer Cell, Physics I,II, Physiology, Microbiology)

Publications

(related to my work in the biotechnology industry):

Apostol I, Levine J, Lippincott J, Leach J, Hess E, Glascock CB, Weickert MJ, Blackmore R., "Incorporation of norvaline at leucine positions in recombinant human hemoglobin expressed in Escherichia coli", J Biol Chem. 1997 Nov 14;272(46):28980-8.

Lippincott J, Hess E, Apostol I, "Mapping of recombinant hemoglobin using immobilized trypsin cartridges", Anal Biochem. 1997 Oct 15;252(2):314-25.

Kerwin BA, Akers MJ, Apostol I, Moore-Einsel C, Etter JE, Hess E, Lippincott J, Levine J, Mathews AJ, Revilla-Sharp P, Schubert R, Looker DL, "Acute and long-term stability studies of deoxy hemoglobin and characterization of ascorbate-induced modifications", J Pharm Sci. 1999 Jan;88(1):79-88.