

Cara Bailey Fausset

Georgia Institute of Technology
School of Psychology
654 Cherry Street
Atlanta, Georgia 30332-0170

Work: 404.385.0798
Mobile: 317.340.7763
Fax: 404.894.8905
Email: cara@gatech.edu

EDUCATION

Summer 2008 - Present	Georgia Institute of Technology School of Psychology Atlanta, Georgia 30332 Ph.D. Engineering Psychology
Fall 2005 – Summer 2008	Georgia Institute of Technology School of Psychology Atlanta, Georgia 30332 M.S. Engineering Psychology
Fall 1997 - Spring 2001	Purdue University School of Interdisciplinary Engineering West Lafayette, Indiana 47906 B.S. Engineering (Biomedical)

RESEARCH ACTIVITIES

Facilitating Aging in Place, Part I: Older Adults' Perceived Product, Service, Technology, and Home Remodeling Needs

Georgia Institute of Technology, (2007-present)

- Focus group study
- Designed to determine the changes that need to be made to the home to help overcome current or foreseen impediments to aging-in-place

Facilitating Aging in Place, Part II: Older Adults' Acceptance of Service Providers in the Home

Georgia Institute of Technology, (2007-present)

- Focus group study
- Designed to determine company and product characteristics that lead an older adult to accept or not accept installers and re-modelers into their home

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On Processing Line Graphs: Understanding Aging and the Role of Spatial and Verbal Resources

Georgia Institute of Technology, (2006-present)

- Master's thesis topic
- Study investigated the verbal and spatial resources required in reading line graphs
- Age-related differences also investigated

Technology Use by Older Adults in the Home, Health, and Work Domains

Georgia Institute of Technology, (2007-present)

- Focus group study
- Explored older adults' experiences with technology in their everyday lives and differential use as a function of education and context of use
- Assisted in data analysis

PUBLICATIONS

Mitzner, T.L., Boron, J. B., **Fausset, C. B.**, Adams, A. E., Charness, N., Czaja, S. J., Dijkstra, K., Fisk, A. D., Rogers, W. A., & Sharit, J. (submitted 12/15/08). Older adults talk technology: Their usage and attitudes. *The Gerontologist*.

Fausset, C. B., Rogers, W. A., & Fisk, A. D. (2008). Understanding the required resources in line graph comprehension. *Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting* (pp. 1830-1834). Santa Monica, CA: Human Factors and Ergonomics Society.

Mitzner, T. L., **Fausset, C. B.**, Adams, A. E., Boron, J. B., Dijkstra, K., Lee, C. C., Rogers, W.A., & Fisk, A. D. (2008). Older adults' training preferences for learning to use technology. *Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting* (pp. 2047-2051). Santa Monica, CA: Human Factors and Ergonomics Society.

Fausset, C. B., Rogers, W. A., & Fisk, A. D. (2008). Designing technology for older adults. *Proceedings of the 2nd International Conference on Applied Human Factors and Ergonomics*. Las Vegas, Nevada.

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Fausset, C. B., Mitzner, T. L., Adams, A. E., & Boron, J. B. (2008). Older people's attitudes toward technology in the home and health domains. *Signpost: Journal of Dementia & Mental Health Care for Older People*, 13, 21-23.

Rogers, W. A., Mayer, A. K., **Fausset, C. B.** (In Press). Understanding the relevance of human factors to neuropsychology practice and the assessment of everyday functioning. In T. Marcotte & Grant (Eds.), *Neuropsychology of everyday functioning* (pp. -). New York: Guilford Publications.

TECHNICAL REPORTS

Fausset, C. B., Rogers, W. A., & Fisk, A. D. (in progress). *Univariate and Multivariate Analysis of Variance: A Primer*. (HFA-TR-09xx). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

Fausset, C. B., Rogers, W. A., & Fisk, A. D. (2008). *Visual graph display guidelines*. (HFA-TR-0803). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

Mitzner, T. K., Adams, A. E., **Fausset, C. B.,** Boron, J. B., Charness, N., Czaja, S., Dijkstra, K., Fisk, A. D., Rogers, W. A., & Sharit, J. (2008). *Focus group script and coding instructions for the CREATE cross-site focus group study of technology use*. (HFA-TR-0801). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

WORKSHOPS (Organizer)

O'Brien, M.A., **Fausset, C.B.,** Rogers, W. A., & Fisk, A. D. (September 2008). *Translating science into practice: Design principles for older users*. IFA's 9th Global Conference on Ageing. Montreal, Canada.

PRESENTATIONS

Fausset, C. B., Rogers, W. A., & Fisk, A. D. (September 2008). *Understanding the required resources in line graph comprehension*. Human Factors and Ergonomics Society 52nd Annual Meeting. New York, NY.

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- Mitzner, T. L., **Fausset, C. B.**, Adams, A. E., Boron, J. B., Dijkstra, K., Lee, C. C., Rogers, W.A., & Fisk, A. D. (September 2008). Older adults' training preferences for learning to use technology. Human Factors and Ergonomics Society 52nd Annual Meeting. New York, NY.
- Mayer, A. K., **Fausset, C. B.**, Fisk, A. D., & Rogers, W. A. (September 2008). *Difficult tasks in the home: Identifying ways to support successful aging in place*. IFA's 9th Global Conference on Ageing. Montreal, Canada.
- Fausset, C. B.**, Mayer, A. K., Rogers, W. A., & Fisk, A. D. (August 2008). *Toward an understanding of successful aging in place*. 116th American Psychological Association Annual Meeting, Boston, MA.
- Fausset, C. B.**, Rogers, W. A., & Fisk, A. D. (July 2008). *Designing Technology for Older Adults*. 2nd International Conference on Applied Human Factors and Ergonomics. Las Vegas, NV.
- Fausset, C. B.**, Rogers, W. A., & Fisk, A. D. (April 2008). *Match or mismatch? Understanding the roles of age and task type in line graph comprehension*. Twelfth Cognitive Aging Conference, Atlanta, GA.
- Mitzner, T. L., Adams, A. E., **Fausset, C. B.**, Boron, J. B., Rogers, W. A. & Fisk, A. D. (April 2008). *Understanding older adults' attitudes about technology use in the home*. Twelfth Cognitive Aging Conference, Atlanta, GA.
- Fausset, C. B.** (March 2008). *On processing line graphs: Understanding aging and the role of spatial and verbal resources*. Presented to the Cognitive Aging Group at the Georgia Institute of Technology.
- Felipe, S. K., **Fausset, C. B.**, Mayer, A. K., Rogers, W. A., & Fisk, A. D. (March 2008). *Aging in place: Older adults' technology use for home management*. 31st Annual Convention of the Behavioral Sciences held by the University of Georgia Chapter of Psi Chi.
- Fausset, C. B.**, Mitzner, T. L., Adams, A., Boron, J. B., Dijkstra, K., Charness, N., Argüelles, T., Lee, C. C., Rogers, W.A., & Fisk, A. D. (August 2007). *Technology use by older adults in the work domain*.

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115th American Psychological Association Annual Meeting, San Francisco, CA.

Bailey, C. L. (April 2007). *On processing line graphs: Understanding aging and the role of spatial and verbal resources*. Presented to the Cognitive Aging Group at the Georgia Institute of Technology.

Burnham, K. E., Mayer, A. K., **Bailey, C. L.** (March 2007). *Factors predicting technology usage: A multi-site study*. Presented at the College of Sciences Undergraduate Recruitment Symposium.

Mitzner, T. L., Adams, A., Argüelles, T., **Bailey, C. L.**, Boron, J. B., Lee, C. C., Weitz, J. R., Charness, N., Czaja, S. J., Dijkstra, K., Fisk, A. D., Rogers, W.A., Sharit, J. (August 2006). *Technology use by older adults*. 114th American Psychological Association Annual Meeting, New Orleans, LA.

Bailey, C. L. (April 2006). *Simple line graphs: How simple are they?* Presented at the Georgia Institute of Technology Engineering Psychology Colloquium.

PROFESSIONAL EXPERIENCE

July 2005-Present

Research Assistant, Human Factors and Aging Lab, Georgia Institute of Technology (Atlanta, Georgia)

- Current research includes:
 - Graph comprehension: The role of spatial and verbal resources in simple line graphs
 - Technology use by older adults in the home, work, and health domains
 - Aging in place and Acceptance of home service providers by older adults
- Maintain participant database
- Responsible for purchasing in the lab

November 2002-May 2005

Process (Manufacturing) Engineer, Eli Lilly and Company
Pharmaceutical Delivery Systems (Indianapolis, Indiana)

- Responsible for reviewing and approving manufacturing process validation packages
- Created and maintained working relationships with third parties

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- Technical contact responsible for managing daily production issues of human growth hormone reconstitution product

February-November 2002

Staff Engineer, Kelly Scientific Services for Eli Lilly and Company
Pharmaceutical Delivery Systems (Indianapolis, Indiana)

- Investigated root causes for both insulin and human growth hormone pen injector device complaints
- Implemented pilot methods for monitoring the device complaints via metrics and Pareto charts
- Monitored current trends in the root causes; explored possible improvements for the device/process

January-August 2001

Biomedical Research Assistant (Biomedical Engineering Department,
Purdue University)

- Investigated effects on coronary stents when devices were covered with the biomaterial Small Intestine Submucosa (SIS)
- Worked for Purdue University in conjunction with Cook BioTech

May-August 2000

Summer Intern, GE Medical Systems (Waukesha, Wisconsin)

- Worked with building facilities engineer; maintained safe working environment for employees according to OSHA standards
- Trained in Six Sigma in the creation of an annual computer based training program for environmental, health, and safety issues

TEACHING

- Guest Lecturer: Applied Experimental Psychology Lecture. "Configural Displays" (Spring 2009). Course Instructor: Dr. Wendy Rogers (Georgia Institute of Technology, Atlanta).
- Guest Lecturer: Introductory Psychology. "Developmental Psychology" & "Abnormal Psychology" (Summer 2008). Course Instructor: Nick Kelling (Georgia Institute of Technology, Atlanta).
- Guest Lecturer: Developmental Psychology. "Memory throughout the Lifespan" (Summer 2008). Course Instructor: Marita O'Brien (Georgia Institute of Technology, Atlanta).
- Teaching assistant for Applied Experimental Psychology Lab (Spring 2007 & Spring 2008). Course Instructor: Arthur Fisk (Georgia Institute of Technology, Atlanta).

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- Guest Lecturer: Introductory Psychology. "Cognitive Development" (Nov. 2007). Course Instructor: Wendy Rogers (Georgia Institute of Technology, Atlanta).

GRANTS & AWARDS

- NIA Cognitive Aging Training Grant awarded Fall 2006
- Georgia Institute of Technology, President's Fellowship (2005 - 2009)

WORKSHOPS/CERTIFICATIONS

- Conjoint Analysis Workshop (April 2006)
 - Workshop delivered by Yili Liu, Atlanta, GA
- Completed certification for the Center of Research and Education on Aging and Technology Enhancement (CREATE) (Spring 2006)
- Completed certification for Georgia Institute of Technology Institutional Review Board to test human subjects (August 2005)

PROFESSIONAL AFFILIATIONS & HONOR SOCIETIES

- Human Factors and Ergonomics Society (Student Affiliate) (2005-present)
- Human Factors & Ergonomics Society, Georgia Institute of Technology Student Chapter (2005-present)
 - Treasurer (2006-2007)

COURSEWORK

Psychology (Core)	Engineering	Quantitative
Sensation & Perception	Engineering Psychology I (Controls)	Statistics I (ANOVA)
Cognitive Psychology	Engineering Psychology II (Displays)	Statistics II (MRC)
Developmental Psychology	Biomechanics	Multivariate Statistics
Biopsychology	Psychomotor & Cognitive Skill Acquisition	Research Methods

Aging Courses

Psychology of Aging
Survey of Cognitive Aging
Applied Cognitive Aging