

# David Niedergeses

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## Education

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### ***Doctor of Philosophy, Iowa State University, 2012***

Rhetoric and Professional Communication & Human Computer Interaction  
Dissertation: Constructing collaborative ecologies: how selection, practice, and mediation assemble and shape social and collaborative software  
Dissertation Advisor, RPC: Gregory D. Wilson  
Dissertation Advisor, HCI: Anthony M. Townsend

### ***Master of Arts, Iowa State University, 2007***

Rhetoric, Composition and Professional Communication  
Thesis: Clean coal rhetoric: Engaging the public on informal education websites about science and technology  
Thesis Advisor: Rebecca E. Burnett

### ***Bachelor of Science, Iowa State University, 2004***

Electrical Engineering

### ***Bachelor of Arts, Iowa State University, 2004***

English

## Professional Experience

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### ***Staff Software Engineer, User Experience Research and Design, IBM, Rochester, MN, 2012***

- Design, Prepare, and Conduct User Studies Using Focus Group, Hands-on Testing, Survey, Interview, and Other Methods
- Research, Design, And Evaluate User Interfaces

### ***Teaching Assistant, Iowa State University Department of English, Ames, IA, 2005-2012***

- Instructor for Many Technology, Rhetoric, and Professional Communication Courses

### ***Software Engineering Co-op, User Experience Designer, IBM, Rochester, MN, 2011***

- Internal Research and Business/System Analysis
- Knowledge Management Documentation

### ***Research Assistant, Iowa State University Department of English, Ames, IA, 2011***

- User Research and System Analysis for Tutoring Application for Engineering Problem Solving
- Qualitative Research Design and Analysis

## **Professional Experience, Cont.**

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*Research Assistant, Iowa State University Department of English, Ames, IA, 2010-2011*

- Software Development for Language Learning Instructional Application

*Research Assistant, Iowa State University Department of English, Ames, IA, 2008-2009*

- Ethnographic Research of Knowledge and Attitudes on Sustainability in the Bioeconomy
- Interviewing
- Qualitative Data Analysis
- Literature Search

*Technical Writer, EFCO Corporation, Des Moines, IA, 2007-2008*

- Internal Research and Business/System Analysis
- Knowledge Management Documentation

*Technology Consultant, National Collegiate Honors Council, Lincoln, NE, 2007*

- Variable Data Communication
- Conference Planning

*Technical and Administrative Assistant, National Collegiate Honors Council, Ames, IA, 2005*

- Variable Data Communication
- Conference Planning

*Engineering Summer Student, Carleton Life Support Systems, Davenport, IA, 2004*

- Test Stand Design and Programming
- User Interface Design
- System Documentation

*Programmer/User Interface Designer, MTEC Photoacoustics, Ames, IA, 2002-2004*

- Test Stand Design and Programming
- User Interface Design

*Summer Intern, HDR Engineering, Inc, Omaha, NE, 1999-2001*

- Computer Aided Drafting
- Web Design, Database Creation

## **Courses Taught**

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*Technology, Rhetoric, and Professional Communication Seminar*

A seminar for advanced undergraduates that examines the implications of innovative technology for rhetoric and professional communication. Students read several contemporary book-length meditations on modern communication technology and develop short and long arguments

## **Courses Taught, cont.**

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### *Technical Communication*

Typically for engineering, science and technical communication majors, this course introduces traditional genres of technical communication from a user-centered perspective. Students produce formal compositions but also practice usability, advanced analysis, and multimodal communication skills.

### *Business Communication*

Typically for liberal arts and business majors, this course introduces common genres of professional communication. It presents the formal conventions of documents like resumes, cover letters, and positive and negative messages with an audience-centered approach.

### *Business Communication, Online*

The online version of the business communication covers the same skills as the standard Business Communication course, but is taught in a digital environment that demands more practical experience with online collaborative applications and learning management systems.

### *Pop Culture Analysis*

This course applies rhetorical techniques and literary and social theory to artifacts of popular culture. Students observe, analyze, discuss, and write academic arguments on written, visual, video, and digital media artifacts.

### *Critical Thinking and Communication*

This introductory composition course prepares first year students for college level writing. It provides a foundation in rhetorical approaches to communication and prepares students for later work with multimodal communication.

### *Written, Oral, Visual, and Electronic Communication*

The second year composition course expands the notion of communication to include multiple modes of communication. Projects integrate composition and critical thinking with visual design, speaking, and digital media skills.

### *Written, Oral, Visual, and Electronic Communication, Digital Media Emphasis*

A special section of the second year composition course designed for English and Communication undergraduate students with greater emphasis on technology skills.

### *Written, Oral, Visual, and Electronic Communication, Honors*

A themed version of the second year W.O.V.E. course for students enrolled in the University Honors program. Like the digital media version, it examines both the practical use and the social implications of communication technology in addition to covering multimodal concepts.

## Publications

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Niedergeses, D. (2011). [Review of the book: The Wall Street Journal guide to information graphics: The dos and don'ts of presenting data, facts, and figures.] *The American Statistician*, 65 (1), 65-66.

Herndl, C., Goodwin, J., Honeycutt, L., Wilson, G., Graham, S. and **Niedergeses, D.**, (2011). Talking Sustainability: Identification and Division in an Iowa Community. *Journal of Sustainable Agriculture*, 35(4), 436-461.

## Conference Presentations

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Niedergeses, D. (2012). [Poster] *Collaborative Software Ecologies: Formal and Informal Tools in Software Development*. Presented at Emerging Technologies Conference, Ames, IA.

Niedergeses, D. (2011). [Poster] *Constructing a collaborative software environment: Selecting software, developing practices, training users*. Presented at Emerging Technologies Conference, Ames, IA.

Niedergeses, D. (2010). *The shared bibliography: Crowdsourcing the documented research project*. Presented at Computers and Writing: "Virtual Worlds," West Lafayette, IN.

Niedergeses, D. (2010). [Poster] *Teaching research with social media: Building on others' efforts*. Presented at The ASME 2010 World Conference on Innovative Virtual Reality, Ames, IA.

Niedergeses, D. (2009). *Sustaining Sustainability Forum: Just what is it that keeps online communities together?* Presented at the Annual conference of the Association of Teachers of Technical Writing, San Francisco, CA.

Graham, S. S., & Niedergeses, D. (2009). *The rhetoric of v-1: The discourse of imaginary numbers and the rhetoric of mathematics*. Presented at the National Communication Association, San Diego, CA.

Niedergeses, D. (2007). *Informational websites and sociotechnical decisions: Using websites to engage the public in scientific issues*. Presented at the Writing in Changing Communities—Communities Writing Change, Saskatoon, SA, Canada: Canadian Association of Teachers of Technical Writing.

Niedergeses, D. (2007). *Creating "Clean Coal" as a Category of Energy*. Presented at the Annual Conference of the Association of Teachers of Technical Writing, New York.

## **Non-Academic Publications**

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Niedergeses, D. (2007). *Work Order System Concept of Operations*. Manuscript published for internal use, EFCO Corporation.

Jennings, S., Geisler, S., & Niedergeses, D. (2006). *Emergency Procedures Manual*. Manuscript published for internal use, Octagon Center for the Arts.

Niedergeses, D. (2005). Boost Pump Test Stand Equipment Documentation. Manuscript published for internal use, Carleton Life Support Systems.

## **Honors and Awards**

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Graduate Teaching Excellence Award, 2012  
*Iowa State University*

Visualization and Interaction Challenge Second Prize (\$750), 2009  
*Emerging Technologies Conference, with E. Marsh, D. Faas, and K. Whitney*

F. Wendell Miller Graduate Fellowship (\$20,000 over 4 years), 2007  
*Iowa State University*

Freda Hunke Fellowship for Professional Development (1 semester reduced teaching, 2007  
*Iowa State University Department of English*

Sigma Tau Delta, 2005  
*Iowa State University Department of English*

Graduate with Distinction, 2004  
*Iowa State University College of Engineering &  
College of Liberal Arts and Sciences*

Phi Kappa Phi, 2002  
*Iowa State University*

Tau Beta Pi, 2000  
*Iowa State University College of Engineering*

## Service

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Member, Department Chair Search Committee, 2009  
*Iowa State University English Department*

President, Phorum, 2008-2009  
*Iowa State University Rhetoric Graduate Student Association*

Phorum Rep., Rhetoric and Professional Communication Faculty Committee, 2009  
Iowa State University Department of English

## Training

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Web 2.0 Bootcamp (60 hour web development course), 2011  
*International Business Machines*

Protection of Human Subjects, 2006  
*Iowa State University*

## Affiliations

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Society for Technical Communication, 2006

Association of Teachers of Technical Writing, 2006

Association of Rhetoric of Science and Technology, 2006

National Communication Association, 2007

## Selected References

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Gregory Wilson, Iowa State University Department of English  
[gdwilson@iastate.edu](mailto:gdwilson@iastate.edu), (515) 294-2180

Anthony Townsend, Iowa State University Department of Logistics and Management of  
Information Systems  
[amt@iastate.edu](mailto:amt@iastate.edu), (515) 294-7834