

Curriculum Vitae

Heike Hofmann

Department of Statistics
Assistant Professor

Degrees:

Ph.D.	Augsburg University (Germany)	Statistics	Dec. 2000
M.Sc.	Augsburg University (Germany)	Mathematics (minor in Computer Science)	Feb. 1998

Professional Experience:

Iowa State University appointment: Assistant Professor	Statistics	Jan 2002 - present
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Positions elsewhere:

Post-Doc	AT&T Labs Florham Park NJ	Statistics	March 2001 - Dec 2001
Post-Doc	Augsburg University	Mathematics Department	Dec 2000 - March 2001

Research Scholarship

(a) Publications

Books:

Unwin A.R., Theus M., Hofmann H. (eds.): *Graphics of Large Datasets - Visualizing a Million*. Springer, 2006.

Hofmann H.: *Graphical Tools for the Exploration of Multivariate Categorical Data*. BOD, 2001.

Book Chapters:

Hofmann H.: *Mosaicplots and their Variations*. in Handbook of Computational Statistics (Volume III) Data Visualization, Elsevier, Amsterdam, 2006.

Hofmann H.: *Multivariate Categorical Data: Mosaic Plots*. in Graphics of Large Datasets, Springer, New York, 2006.

Unwin A., Hofmann H.: *New Interactive Graphics Tools for Exploratory Analysis of Spatial Data*. Innovations in GIS 5, ed Carver, Taylor and Francis, London, UK, 1997.

Refereed Publications:

Buja A., Swayne D.F., Littman M., Dean N., Hofmann H.: *Interactive Data Visualization with Multidimensional Scaling* tentatively accepted for publication in the Journal of Computational and Graphical Statistics (only minor fixes necessary).

Cook D., Hofmann H., Nikolau B., Wurtele E., Lee Eun-kyung, Yang H.: *Exploring gene expressions using plots* Journal of Data Science, accepted, 2005.

Ahn J.S., Cook D., Hofmann H.: *A Projection Pursuit Method on the multidimensional squared Contingency Table* Computational Statistics, Vol 18 (4), pp. 605–626, 2003

- Wurtele E.S., Dickerson J.D., Cook D., Hofmann H., Li J., Diao L.: *MetNet: software to build and model the biogenetic lattice of Arabidopsis*. Comparative and Functional Genomics. Vol 4, pp.239–245, 2003.
- Hofmann H.: *Constructing and reading mosaicplots* Computational Statistics and Data Analysis, Vol 43, No. 4, pp. 565-580, 2003.
- Unwin A., Hofmann H., Wilhelm A.: *Direct Manipulation Graphics for Data Mining*. International Journal of Image and Graphics, Vol. 2, No. 1, pp. 49-65, 2002.
- Hofmann H.: *Generalised Odds Ratios for Visual Modelling*. In Journal of Computational and Graphical Statistics, 10, pp 628-640, 2002.
- Hofmann H., Unwin A. Wilhelm A.: *Data Mining and Statistics - Introduction*. in Computational Statistics, 16(3),pp. 317-321, 2001.
- Hofmann H., Wilhelm A.: *Visual Comparisons of Association Rules*. In Computational Statistics, 16(3), pp 399-416, 2001.
- Wilhelm A., Hofmann H.: *Graphics for Categorical Data and their Applications in Data Mining*. In C. Provasi (Ed.), *Modelli Complessi e Metodi Computazionali Intensivi per la Stima e la Previsione*, pp. 51-56, 2001.
- Hofmann H.: *Exploring Categorical Data: Interactive Mosaic Plots*. In *Metrika*, 51(1), 11-26, 2000.
- Hofmann H., Theus M.: *Selection Sequences in MANET*. Computational Statistics, 13(1), 77-87, 1998.
- Unwin A., Hawkins G., Hofmann H., Siegl B.: *Interactive Graphics for Data Sets with Missing Values - MANET*. Journal of Computational and Graphical Statistics, 5(2), pp. 113-122, 1996.

Invited Contribution:

- Hofmann H.: *Graphical Statistical Methods*. in Encyclopedia of Measurement and Statistics, Neil Salkind (ed), 2006.
- Hofmann H.: *Mosaic Plots*. in Encyclopedia of Measurement and Statistics, Neil Salkind (ed), 2006.
- Hofmann H.: *Parallel Coordinate Plots*. in Encyclopedia of Measurement and Statistics, Neil Salkind (ed), 2006.

Refereed Conference Publications:

- Thostenson J., Lowell D., Schroeder D., Hofmann H.: *Bootstrap Simulation Evaluations of Missing Data Methods Applied to Smoking Cessation Data*. In ASA Proceedings, 2006.
- Yakhnenko O., Hofmann H.: *Exploring Parameters in Loglinear Models* In ASA Proceedings, Section on Statistical Graphics, 2005, MN.
- Hofmann H.: *Interactive biplots for visual modelling*. in Proceedings in Computational Statistics 16th Symposium held in Prague, Czech Republic, Antoch, Jaromir (Ed.), pp. 235–250, 2004.
- Lee E-K, Cook D, Hofmann H, Wurtele ES, Kim D, Kim J, and An H.: *GENEGOBI : Visual data analysis tools for microarray data*. in Proceedings in Computational Statistics 16th Symposium held in Prague, Czech Republic, Antoch, Jaromir (Ed.), 2004.
- Theus M., Cook D., Hofmann H.: *Scatterplots for Massive Datasets* in Computing Science and Statistics, Vol 35 , 2003.
- Zhang Jing, Miller L. Cook D., Hardjasamudra A., Hofmann H.: *Densityplot Matrix Display for Large Distributed Data*. In Proc. of the IEEE International Conference on Data Mining 2003.

- DiBenedetto D., Hofmann H.: *Mining with your Eyes. Thats Interactivity.* In Proc. of the Meeting of the Società Italiana di Statistica, 2003.
- Hofmann H., Wilhelm A.: *Exploring association rules by interactive graphics.* In W. Gaul, G. Ritter (Eds.), *Classification, Automation, and New Media*, 181-188. Springer: Berlin, 2002.
- Unwin A., Hofmann H., Bernt K.: *Multiple Association Rules Control.* In Proc. of the 5th European Conf. on Principles and Practice of Knowledge Discovery in Databases (PKDD'01), pp. 472-483, 2001.
- Hofmann H., Siebes A., Wilhelm A.: *Visualising Association Rules with Interactive Mosaic Plots.* In Proc. of the 6th Int'l Conference of SigKDD, pp. 227-235, 2000.
- Hofmann H.: *Graphical Stability of Data Analysing Software.* In R. Klar Opitz, O. (Ed.), *Classification and Knowledge Organisation*, (pp. 36-43). Freiburg: Springer, 1997.
- Unrefereed Publications:**
- Hofmann H.: *Visualizing Simple Logistic Regression Models Using Mosaic Plots.*, Technical Report, ISU Statistics Series, 11, 2006.
- Hofmann H., Kafadar K., Wickham H.: *Letter-Value Box Plots - adjusting box plots for large data sets.*, Technical Report, ISU Statistics Series, 10, 2006.
- Hofmann H.: *Categorical Displays of a Million Cases.*, Technical Report, ISU Statistics Series, 2, 2004.
- Cook D., Hofmann H., Lee E.-K., Yang H., Nikolau B., Wurtele E.: *Visual Methods for Data from Two Factor Single-Replicate Gene Expression Studies.*, Technical Report, ISU Statistics Series, 1, 2004.
- Hofmann H.: *Visualisation of Association Rules.* In Proc. of the Interface Symposium 2001.
- Hofmann H., Wilhelm A.: *Validation of Association Rules by Interactive Mosaic Plots.* In J.G. Bethlehem and P.G.M. van der Heijden (eds.), *CompStat 2000 - Proceedings in Computational Statistics*, pp. 499-504, Physica-Verlag, Heidelberg, 2000.
- Hofmann H.: *Visualisation in Data Mining - Screening Multivariate Categorical Data.* in Invited Papers of the 52nd Session of the International Statistical Institute, pp. 355-400, 1999.
- Unwin A., Hofmann H.: *GUI and Command-line - Conflict or Synergy?* In K. Berk and M. Pourahmadi (Eds.) *Computing Science and Statistics, Proceedings of the 31st Symposium on the Interface*, 31, Chicago: Interface Foundation, 1999.
- Hofmann H.: *Simpson on Board the Titanic? - Interactive Methods for dealing with Multivariate Categorical Data.* in *Statistical and Computing Graphics Newsletter* (vol.9,no.2), 1999.
- Hofmann H.: *Interactive Biplots.* in *NTTS* 98, 1 (pp. 127-136). Sorrento: Eurostat, 1998.
- Hofmann H., Theus M.: *Selection Sequences in MANET* *Computational Statistics*, Vol. 13 Issue 1, pp. 77-88, 1998.
- Theus M., Hofmann H., Wilhelm A.: *Selection Sequences - interactive analysis of massive data sets.* *Computing Science and Statistics* 29(1), (Scott, D.W. ed.) pp. 439-444, Interface Foundation of North America, Inc: Fairfax Station, VA, 1998.
- Unwin A., Hofmann H.: *Can we see what isn't there? Exploring and keeping track of missings.* In *ASA Proceedings - Section on Statistical Graphics*, 1997.
- Unwin A., Theus M., Hofmann H., Siegl B.: *MANET - Extensions to Interactive Statistical Graphics for Missing Values.* *New Techniques and Technologies for Statistics II*, IO-Press Amsterdam, pp. 247-259, 1997.
- Unwin A., Hawkins G., Hofmann H., Siegl B.: *Interactive Graphics for Data Sets with Missing Values - MANET.* *Journal of Computational and Graphical Statistics*, Vol. 4, No. 6, p. , 1996.

Refereed Conference Presentations:*exploRase*

July 2006, Conference on Coordinated Multiple Views, London, UK.

Visual Modeling with Mosaic Plots

May 2005, Annual meeting of the Interface, Saint Louis, MO.

How to visualize a million bins

Aug 2003, Joint Statistical Meetings, San Francisco, CA.

Oct. 2002, 3rd Workshop of Data Visualisation, Rain am Lech, Germany.

Visualizing Conditional Distributions

Annual meeting of the German Society of Statistical Computing, Reisenburg, Germany, July 2003;

Annual meeting of the Interface, Salt Lake City, Utah, Mar 2003.

Visualizing Simple Association Models

COMPSTAT meeting, Berlin, Germany, August 2002.

Visualizing Conditional Distributions

Annual meeting of the Gesellschaft für Klassifikation (German Classification Society), Mannheim, Germany, July 2002.

Visualisation of Association Rules

June 2001, Interface Symposium, Santa Ana, CA.

Visualisation in Data Mining - Screening Multivariate Categorical Data

Aug. 1999, ISI'99, Helsinki, Finland.

Interactive Biplots

Oct. 1998, NTT'S'98, New Techniques and Technologies for Statistics, Sorrent, Italy.

Can we see what is not there? Exploring and keeping track of missings

Aug. 1997, Joint Statistical Meetings, Anaheim, CA.

Paper Submissions:

Hofmann H., Theus M.: *Visualising Conditional Distributions* submitted to the Journal of Computational and Graphical Statistics.

Hofmann H.: *Visualisation of Simple Association Models* submitted to Computational Statistics and Data Analysis.

Under Revision:

Lee, E-K., Cook D., Hofmann H., Aluru M., Rodermel S.: *Using Reliability with Gene Expression Models*. to be re-submitted.

In Preparation:

Hofmann H., Kafadar K., Wickham H.: *Letter Value Boxplots* intended for The American Statistician, needs minor finishing touches.

Hofmann H.: *Biplots for Visualizing Linear Models* intended for Journal of Computational and Graphical Statistics, needs minor finishing touches.

Hofmann H.: *Mosaicplots and Logistic Regression Models* intended for JCGS or RSS-B, needs minor finishing touches.

Hofmann H., Unwin A., Gribov A.: *Gauguin and the Expo – Visualizations using Glyphs*

Hofmann H., Cook D., Kostelnick C.: *Dusty Archives to BLOGS – teaching statistical graphics*

Hofmann H. & Vardeman S.: *Statistics for Computer Scientists* Book manuscript - intended for Springer. I am still talking with John Kimmel about the manuscript. There are two or three chapters missing. I will resume working on it, once I'm dealing with Stat 330 again. Arka Ghosh might be a good co-author - he has been teaching Stat 430X in Spring 2006.

(b) **Software**

i. **Manet**,

Manet is software for highly interactive statistical graphics. It was originally designed to deal with missing values in plots, but was extended considerably beyond that. By now, all types of common modern graphics are implemented, as well as some less well-known graphics for high dimensional visualization, such as mosaic plots and parallel coordinate plots. The main focus of the software now is the interactive exploration of high dimensional categorical data with and without missing values. Interactive mosaic plots were first implemented in Manet. A lot of the ideas are now being re-implemented in other software packages.

The software is written in C++, I have been the main author since 1997. Previous contributions are by George Hawkins and Bernd Siegl. The software is freely available at <http://www.rosuda.de/manet>

ii. **GGobi**,

My contribution to GGobi is a basic implementation of area charts (histograms, bar charts). The software is freely available at <http://www.ggobi.org>

iii. **R package**,

Package LVboxplots (with Hadley Wickham and Karen Kafadar): a package for drawing letter-value boxplots, an extension of the concept of boxplots to large data sets; available on CRAN: <http://www.r-project.org/>.

(c) **Grants**

i. External

NSF proposal 0416730:*Functional Genomics of the Biotin Metabolic Network of Arabidopsis*, Co-PI, \$379,996.00, funded (09/01/04 - 08/31/06).

NSF proposal 050267: *Arabidopsis 2010: MetNet: Integrated Software for Arabidopsis Systems Biology Research*, Senior Personnel, \$969,634, funded (09/01/05 - 08/31/07).

ii. Internal

LAS Foreign Travel Grant 2006, \$1300.

LASCAC COLL grant, *mysql Database for online storage of course material*, \$4,000.

LAS Foreign Travel Grant 2002, \$513.

iii. Pending

NSF proposal :*CAREER: Visual Exploratory Modeling - integrating efficient, exploratory, and interactive graphics in the statistical modeling process*, \$452,162

NSF proposal :*Integrated Genomewide Analysis and Inference of Carotenoid Regulated Gene-Metabolite Networks in Arabidopsis*, Co-PI with Maneesha Aluru (PI), Steven Rodermel, Srinivas Aluru \$888,804.

(d) **Invited Talks**

Scagnostics for Projection Pursuit

Aug. 2007, Joint Statistical Meetings, Salt Lake City.

Variations of Mosaic plots

Aug. 2006, CSC Conference: Workshop on Data and Information Visualization 2006, Berlin, Germany.

Aug. 2006, Compstat 2006, Rome, Italy.

- Boom and Bust of High-Tech Industry at the turn of the Millenium - Data Challenge*
Oct. 2005, InfoVis, Minneapolis, MN (part of the award ceremony).
- Interactive biplots for visual modelling*
Aug. 2004, Compstat 2004, Prague, Czech Republic.
- How to visualize a million bins*
Aug. 2003, Joint Statistical Meeting, San Francisco.
- How to visualize a million bins*
June 2003, International Meeting of the Psychometric Society, Cagliari, Italy.
- Graphics - an Ace up a Statistician's Sleeve*
June 2003, WNAR President's Invited Address June 2003, Golden, Colorado.
- Graphical Opportunities in Exploring Microarray Data*
May. 2003, Toxicogenomics: Through the Eyes of Informatics, organized by the Virginia Bioinformatics Institute and NIEHS, Washington D.C.
- How to visualize a million bins*
Oct. 2002, 3rd Workshop of Data Visualisation, Rain am Lech, Germany.
- How to visualize one million points*
Dec. 2001, University of Augsburg, Germany.
- Visualisation of Association Rules*
June 2001, Interface Symposium, Santa Ana, CA.
- Mosaics, Mosaics, and Mosaics*
May 2001, 2nd Workshop of Data Visualisation, Washington D.C.
- Do you know your feelings? - A statistical analysis of linguistic data*
Nov. 2000, Int'l Symposium on Data Mining & Statistics, Augsburg, Germany (talk in German).
- Generalised Odds Ratios for Visual Modelling*
May 2001, AT&T Research Labs, Statistics Seminar, Florham Park, NJ.
April 2001, Iowa State University, IA.
Feb. 2001, University of Madison, WI.
Aug. 2000, Iowa State University, IA.
- MANET - an interactive graphical system*
Feb. 2000, Cambridge University, UK.
Aug. 1997, AT&T Research Labs, Florham Park, NJ.
- Interactive Statistical Graphics*
Oct. 2000, CWI Amsterdam, The Netherlands.
- Visualisation in Data Mining - Screening Multivariate Categorical Data*
Aug. 1999, ISI'99, Helsinki, Finland.
- GUI and Command-line - Conflict or Synergy?*
June 1999, Interface '99, Chicago.
- Interactive Biplots*
Oct. 1998, NTTS'98, New Techniques and Technologies for Statistics, Sorrent, Italy.
- Mosaicplots in an interactive graphical system*
June 1998, Yale University, New Haven.
- Visualising and Working with Categorical Data*
June 1998, Lucent Technologies, Chicago.
June 1998, Visual Insight, Chicago.

Can we see what is not there? Exploring and keeping track of missings
Aug. 1997, Joint Statistical Meetings, Anaheim.

(e) **Contributed Talks** (since Jan 2002)

Letter Value Boxplots (with Karen Kafadar)

useR!, Vienna, Austria, June 2006;
Annual Interface Meeting, Pasadena, CA, May 2006;
Joint Statistical Meetings, Seattle, WA, August 2006.

Bootstrap Simulation Evaluations of Missing Data Methods Applied to Smoking Cessation Data
(with Jeff Thostenson, Lowell Dale, Darrell Schroeder) Joint Statistical Meetings, Seattle, WA, August 2006.

A Daisy a Day (with Rachel Graham)

Joint Statistical Meetings, Seattle, WA, August 2006.

Interactive Biplots for Visual Modeling

Joint Statistical Meetings, Minneapolis, MN, August 2005.

Visualizing Effects of Loglinear Models (with O. Yakhnenko)

Joint Statistical Meetings, Minneapolis, MN, August 2005.

Visualizing Conditional Distributions

Annual meeting of the German Society of Statistical Computing, Reisenburg, Germany, July 2003;

Annual meeting of the Interface, Salt Lake City, Utah, Mar 2003.

Visualizing Simple Association Models

COMPSTAT meeting, Berlin, Germany, August 2002.

Visualizing Conditional Distributions

Annual meeting of the Gesellschaft für Klassifikation (German Classification Society), Mannheim, Germany, July 2002.

Explorative Analysis of Microarray Data

Annual meeting of the German Society of Statistical Computing, Reisenburg, Germany, July 2002.

(f) **Creative Activity**

Creation & Distribution of four ASA sponsored posters on Statistical Graphics (with Dianne Cook and Martin Theus, Augsburg University)

(g) **Refereeing and Editing**

Associate Editor for Journal of Computational and Graphical Statistics, 02/02 - present.

Associate Editor for Computational Statistics, 02/10 - present

Co-Editor of "Graphics for Large Datasets", to be published in 2006.

Guest Editor of the special issue on Data Mining and Statistics of the Journal of Computational Statistics, vol. 16 (3), 2001.

Referee for

Springer (3 book manuscripts),

Chapman & Hall (1 book manuscript),

Journal of Computational and Graphical Statistics (13 reviews),

The American Statistician (2 reviews)

Journal of Computational Statistics and Data Analysis (2 reviews),

Journal of Statistical Software (1 review),
 Journal of Computational Statistics (2 reviews)
 Journal of Statistics Education (1 review)
 Knowledge and Information Systems - An International Journal (1 review)
 Conference contribution for Information Visualization '05 (1 review)

(h) **Honors and awards for candidates research scholarship**

LAS College award 2006 for early achievement in research.

Second Prize with Dianne Cook, Hadley Wickham, and Jonathan Hobbs in the ASA Data Exposition Contest 2006.

First Prize with Dianne Cook, Hadley Wickham, Junjie Sun and Christian Röttger in the InfoVis Data Contest for the Contribution "Boom and Bust of Technology Companies at the Turn of the 21st Century", 2005.

Apple.com feature story "Creative Statistics" (in German, www.apple.com/de/education/hed/unwin/) 2001.

Finalist in European Academic Software Award, Klagenfurt, Austria, 1997.

Extension of Professional Practice

(a) **Workshops & Conferences**

Member of the program committee of the fourth International Conference on Coordinated & Multiple Views in Exploratory Visualization (CMV2006), July 4th, London, UK.

Workshop for the ASA Alaska chapter (with Dianne Cook), *Visualizing Multivariate Data*, June 2003.

Session Organizer, *Discrete Data*, JSM 2002.

Member of the Organizing Committee: Third International Workshop on Data Visualization for large data sets and Data Mining, October 6 - 9, 2002, Augsburg, Germany.

Member of the Organizing Committee: International Symposium on Data Mining and Statistics, November 20-21, 2000, University of Augsburg, Germany.

CE Workshop *Visual Data Mining* at the Joint Statistical Meetings, Indianapolis 2000.

CE Short Course *Graphical Methods for Categorical Data* (with Antony Unwin) at the Interface Meeting, Chicago 1999.

(b) **Instructional Material**

Lecture notes for Stat 330, Stat 322, Stat 511, and Stat 557 (see attached folder)

Service

(a) **Committee Work**

Fall 2006	Liaison to LAS International Program
Fall 2005-06	MS Exam Committee
Fall 2005, Spring 2006	Social Committee
Fall 2003 - Spring 2005	Graduate Admission
Spring 2003	Search Committee
Spring 2002 - Fall 2006	Computation Advisory Committee

(b) **Local Presentations**

Introduction to the Exposition Data

Iowa State University, VIGRE Graphical and Computational Statistics, Sept, Oct 2005, Spring 2006 (several sessions).

Introduction to Mondrian (with Hadley Wickham)

Iowa State University, VIGRE Graphical and Computational Statistics, Sept 2005.

Graphics - an ACE up the Statistician's Sleeve

Iowa State University, VIGRE Graphical and Computational Statistics, Sept 2005.

Introduction to the InfoVis Challenge

Iowa State University, VIGRE Graphical and Computational Statistics, Mar 2005.

Working With Trees Interactively

Iowa State University, VIGRE Graphical and Computational Statistics, Feb 2005.

Graphically Easy Tasks

Iowa State University, VIGRE Graphical and Computational Statistics, Feb 2005.

Viewing Poll Data - Elections 2004

Iowa State University, VIGRE Graphical and Computational Statistics, Nov 2004.

Graphical Methods for Linear Models

Iowa State University, VIGRE Graphical and Computational Statistics, Oct 2004.

History of Statistical Graphics

Iowa State University, VIGRE Graphical and Computational Statistics, Aug 2003.

Visualizing Conditional Distributions

Iowa State University, VIGRE Graphical and Computational Statistics, April 2003.

Introduction to the software MANET

Iowa State University, VIGRE Computational Statistics & Graphics, March 2003.

Large p and small n - the Biotin Data

Iowa State University, Metabolic Networks Working Group, February 2003.

First Analysis of the Biotin Data

Iowa State University, Metabolic Networks Working Group, February 2003.

Introduction to the Bioconductor Software

Iowa State University, Metabolic Networks Working Group, March 2003.

Normalization of Affymetrix Data Using BioConductor

Iowa State University, VIGRE Bioinformatics and Genetic Statistics Working Group, Nov 2002.

Visualizing Large Numbers of Categories

Iowa State University, VIGRE Graphical and Computational Statistics Working Group, Oct 2002.

Explorative Analysis of MicroArray Data

Iowa State University, VIGRE Bioinformatics and Genetic Statistics Working Group, March 2002.

Graphical Data Analysis with MANET

Iowa State University, VIGRE Graphical and Computational Statistics Working Group, February 2002.

Graphical Analysis of MicroArray Data

Iowa State University, Metabolic Networks Working Group, February 2002.

Teaching:

(a) **Courses taught:**

Semester	Course Number & Title	Enrollment	Evaluation
Fall 2006	Stat 557: Categorical Data Analysis		
Fall 2006	Stat 330: Prob. and Stat. for Computer Science		
Spring 2006	Stat 511: Statistical Methods	55	3.14
Spring 2005	Stat/Engl 332X: Visual Comm. of Quantitative Information with Dianne Cook, Charles Kostelnick	8	4.20
Spring 2005	Stat 511: Statistical Methods	41	3.24
Fall 2004	Stat 557: Categorical Data Analysis	29	3.28
Fall 2003	Stat 330: Prob. and Stat. for Computer Science	ca. 45	4.64
Fall 2003	Stat 322: Probabilistic Methods for Electrical Engineers	ca. 65	4.55
Spring 2003	Stat 330: Prob. and Stat. for Computer Science	ca. 55	4.37
Fall 2002	Stat 330: Prob. and Stat. for Computer Science	ca. 40	4.35
Spring 2002	Stat 330: Prob. and Stat. for Computer Science	ca. 25	4.27

(b) **Course and curriculum development activity:**

Stat 332X Information Visualization:

with Dianne Cook and Charles Kostelnick (English): undergraduate course (with graduate credit), team-taught for the first time in Spring 2006.

Stat 430X Statistics for Computer Scientists:

with Bill Duckworth: statistics for CS graduate students taught in Spring 2006 (by Arka Ghosh).

(c) **Advising:**

Undergraduate Advising:

Michael Claveria (Statistics VIGRE student) (Summer 2005)

Michael took part in our summer VIGRE program for undergraduate research experience. He worked as part of the Statistical Computing and Graphics VIGRE working group on the Information Visualization challenge. Michael has been accepted as a graduate student to the Statistics Department in Fall 2006.

(see <http://www.public.iastate.edu/hofmann/infovis>).

Oksana Yakhnenko (Computer Science) (Summer 2002 - Summer 2004)

Oksana is working as an RA on a project to visualize effects of log-linear models. She has implemented JAVA software over the summer, and is working on a paper we intend to submit for the student's paper award of ASA's Graphics section.

Seth Bacon & Chad Kilgore (Computer Science) (Summer 2002)

Seth and Chad have designed and implemented a mysql database for instructional material funded by the LASCAC COLL grant.

Graduate RA:

Michael Lawrence (BCB) (August 05 - August 07)

Michael is working on the NSF grant with Basil Nikolau and Eve Wurtele. He helps with the analysis of experiments on the biotin network.

Lifeng You (Statistics) (Fall 2003)

Lifeng has been working on a data analysis of microarray data. The data has been collected by Carol Foster in Eve Wurtele's lab (Botany). This project was part of Lifeng's creative component.

M.Sc. in progress

Hong Bai (co-major with Economics)
Rachel Graham (Statistics)
Aimin Yan (co-major with Chemistry)
Teresa McConville (Statistics)
Jie Zhu (co-major with Economics)

M.Sc. completed

Junjie Sun (Spring 2006) (co-major with Economics)
Suzanna Stevens (Fall 2005) (Statistics),
Jeff Thostenson (Fall 2005) (Statistics),
Lifeng You (Spring 2004) (Statistics),
Peter Hoekstra (Statistics; advisor: Ranjan Maitra),
Lixia Diao (Statistics; advisor: Dianne Cook),
Aulia Hardjasamudra (Statistics; advisor: Dianne Cook)
Hao Yang (Statistics; advisor: Dianne Cook),

Ph.D. in progress

Hadley Wickham (Statistics; co-advisor with Dianne Cook),
Ling Guo (Bioinformatics and Computational Biology; advisors: Dan Ashlock & Patrick Schnable),

Ph.D. completed

Ozlem Ilk (Statistics; advisors: Mike Daniels & Dianne Cook),
Eun-kyung Lee (Statistics; advisor: Dianne Cook)