

Marie Vendettuoli

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| EDUCATION | Iowa State University Ph.D., Human Computer Interaction, Bioinformatics and Computational Biology Advisors: Heike Hofmann, Dianne Cook | August 2013 |
| | University of Phoenix MBA, Healthcare management | July 2010 |
| | University of Washington B.S., Biochemistry (math minor) | June 2003 |
| EXPERIENCE | Statistics Section, USDA APHIS Center for Veterinary Biologics Computer Scientist SCEP Intern | August 2013 - present 2010 - 2013 |
| | Iowa State University Research Assistant, IGERT | 2008 - 2010 |
| | Donor Testing, Puget Sound Blood Center Technologist 2 Technologist 1 Technical Assistant | 2006 - 2008 2005 - 2006 2004 - 2005 |
| | University of Washington Research Scientist/Engineer 2 Undergraduate Researcher | 2003 - 2004 2000 - 2003 |
| | Student Career Experience Program | 2010 - 2013 |
| | Integrative Graduate Education and Research Traineeship | 2008 - 2010 |
| FUNDING | Washington NASA Space Grant Scholar | 2000 - 2003 |
| | University of Washington Engineered Biomaterials | 2000 - 2002 |
| | Tollentino Scholarship | 2000 |
| R PACKAGES | PF, MF, CVBmisc Methods for calculation of prevented fraction, mitigated fraction and other miscellaneous functions of low maturity as implemented by statisticians at USDA APHIS CVB. Contribution: compilation of code into package, documentation, submission and maintenance/debugging. | |
| | dataFormats, cvbplots Methods for importing and displaying data formatted according to USDA APHIS CVB guidelines. Default plotting conventions accepted by USDA APHIS CVB. Contribution: authorship of code and documentation, per specifications determined by statisticians at CVB. | |

chromatoplotsgui

Graphical interface for the exploration of metabolomics data. Uses **shiny** for the dashboard and **cranvas** for interactive graphics. Authorship is entirely mine.

cranvas

Interactive graphics from R. Contribution: initial coding for the **qscatter** function, debugging, API development

PUBLICATIONS

Vendettuoli M, Choi SY, Yin T, Majumder M, Wurtele E, Cook D, Hofmann H (in submission) Validating Metabolite Discovery During Analysis of GC-MS Data, *Metabolomics Journal*

Vendettuoli M, Siev D, and Hofmann H, (in submission) Developing tools for communicating between business and statistical audiences: A case study at USDA APHIS, *R Journal*

Hofmann H, and **Vendettuoli M** (accepted, 2013) Common Angle Plots as perception-true visualizations of categorical associations, *TCGV*

Vendettuoli M, Doyle E, and Hofmann H (2011) Clustering microarray data to determine normalization method, *Adv Exp Med Biol* 696: 145-53.

McArthur SL, **Vendettuoli M**, Ratner BD and Castner DG (2004) Methods for Generating Protein Molecular Ions in ToF-SIMS, *Langmuir* 20: 3704-3709

SELECTED CONFERENCES

Joint Statistical Meetings, Montreal QC, August 2013

UseR!2012, Nashville TN, July 2012

ISBRA, Dallas TX, May 2012

Emerging Technologies Conference, Ames IA, April 2012

NMBST Santa Fe NM, May 2012

ACM-BCB, Chicago IL, August 2011

SCVMI, Dubuque, IA March 2011

Joint Statistical Meetings, Vancouver BC, August 2010

UseR!2010, Gaithersburg MD, July 2010

BIOCOMP, Las Vegas NV, July 2010

NMBST, Santa Fe NM, May 2010

Biotechnology and Bioinformatics Symposium, Lincoln NB, November 2009

SERVICE

Session Chair, Joint Statistical Meetings, 2013

Finance Committee Member, GPSS, 2012 - 2013

HCI Senator, GPSS, 2012 - 2013

Volunteer Tax preparer, VITA/ISU, 2010

BCB Lab, 2008 - 2013

Site Manager, VITA/King County United Way, 2008

Volunteer Tax preparer, VITA/King County United Way, 2006 - 2007