Marie Vendettuoli

1920 Dayton Ave
Ames IA 50010

marie@mariev.net
mariev.net/studiousmarie
206.779.3198

EDUCATION		
	Iowa State University	
	Ph.D., Human Computer Interaction,	August 2013
	Bioinformatics and Computational Biology	
	Advisors: Heike Hofmann, Dianne Cook	
	University of Phoenix	
	MBA, Healthcare management	July 2010
	University of Washington	
	B.S., Bioinformatics	June 2003

EXPERIENCE		
	Statistics Section, USDA APHIS Center for Veterinary Biologics	
	Computer Scientist	August 2013 - present
	SCEP Intern	2010 - 2013
	Iowa State University	
	Research Assistant, IGERT	2008 - 2010
	Donor Testing, Puget Sound Blood Center	
	Technologist 2	2006 - 2008
	Technologist 1	2005 - 2006
	Technical Assistant	2004 - 2005
	University of Washigton	
	Research Scientist/Engineer 2	2003 - 2004
	Undergraduate Reseacher	2000 - 2003

FUNDING		
	Student Career Experience Program	2010 - 2013
	Integrative Graduate Education and Research Traineeship	2008 - 2010
	Wahington 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 RStudio 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 QB, August 2013
UseR!2012, Nashville TN, July 2012
ISBRA, Dallas TX, May 2012
Emerging Technologies Conference, Ames IA, April 2012
NMBST Sant 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, Sant Fe NM, May 2010
Biotechnology and Bioinformatics Symposium, Lincoln NB, November 2009