William David Brinda   *Curriculum vitae*

CONTACT INFORMATION	Department of Statistics
	Yale University
	24 Hillhouse Avenue
	New Haven, CT 06511 USA
	Mobile: 256-508-3380
	Email: william.brinda@yale.edu
	Web: www.stat.yale.edu/~wdb22

OBJECTIVE Summer internship that allows me to use my mathematical and technical skills to creatively solve problems.

EDUCATION Cumulative GPA: 3.9/4.0

Yale University, New Haven, Connecticut
   Ph.D., Statistics   **expected May, 2016**
   - University Fellowship
   - James R. Goodrich Memorial Fellowship

Indiana University, Bloomington, Indiana
   M.S., Applied Statistics, M.S., Secondary Education   **May, 2011**
   - High-Dimensional Data Analysis Research Group
   - State of Indiana Mathematics Teaching License
   - Noyce Scholarship
   - Cognitive Science Visiting Undergraduate Research Fellowship

Tulane University, New Orleans, Louisiana
   B.S., *cum laude* Neuroscience with Mathematics Minor   **September, 2007**
   - Distinguished Scholarship
   - Higgins Scholarship

RESEARCH Brinda, W.D., Shantanu Jain, Michael Trosset. "Inference on Random Graphs with Classified Edge Attributes". *Indiana University Technical Report*
   Available at http://stat.indiana.edu/technicalreports.phtml

Primary research interests include model selection, information theory, and causality.

SOFTWARE SKILLS Data Analysis:
   R, LATEX
   - I have used *R* for countless data analyses and simulations since I began studying statistics. In addition, I have typed all of my homework and reports in LATEX.

Web Development:
   Python, Django, JavaScript, jQuery, CSS, HTML, Google App Engine hosting, Google Apps, Search Engine Optimization, Podcasting
   - I have created several web applications including Tyrannosaurus Prep, which has been used by hundreds of thousands of people worldwide.

PAST EMPLOYMENT	**Yale University Department of Statistics**, New Haven, Connecticut	
	Instructor	**July 2015–August 2015**

- I taught the undergraduate class *Introduction to Statistics*, for which I created a curriculum from scratch. I also managed two teaching assistants during the course.

Teaching Assistant   **August 2012–May 2015**

- I have been a teaching assistant for *Probability Theory with Applications*, *Theory of Statistics*, *Linear Models*, *Statistical Consulting*, and *Stochastic Processes*. For these classes, I have given lectures, held office hours, and graded papers.

Tulane University Tutoring Center, New Orleans, Louisiana

Supervisor   **May 2006–May 2007**

- I collaborated with fellow supervisors to plan tutor-training sessions. I also oversaw operations at the tutoring center during open hours.

Tutor of Physics, Logic, Mathematics, and Chemistry **January 2005–May 2007**

- I tutored a variety of subjects for college students at all grade and ability levels. The methods were one-on-one appointments or small-group sessions by subject.
- Voted "Tutor of the Year" by peers at the end of the 2006-2007 year.

The McGraw Center for Teaching and Learning, Princeton, New Jersey

Chemistry Tutor   **September 2005–December 2005**

- I assisted students with homework and test preparation in a study-hall-type setting, during a semester at Princeton University as a visiting student.

REFERENCES AVAILABLE TO CONTACT

Professor Michael Trosset	Professor Joseph Chang
Department of Statistics	Department of Statistics
Indiana University	Yale University
812-856-7824	203-432-0642
mtrosset@indiana.edu	joseph.chang@yale.edu

BLOG   A small sample of my work comprises my blog at *blog.quantitations.com*. Here are some of the things I have written about:

```r
### Create wordcloud for blog ###
library(XML); library(tm); library(wordcloud)

# Get list of all posts from blog.quantitations.com homepage
home <- htmlParse("http://blog.quantitations.com")
pattern <- "//ul[@class='posts']/li/a"
posts <- paste0(xpathSApply(home, pattern, xmlGetAttr, "href"), "/")

# Create vector of all words that occur
words <- c(); pattern <- "//div[@class='content']/div/div/p/text()"
for(post in posts) {
  text <- xpathSApply(htmlParse(post), pattern, xmlValue)
  text <- paste(text, collapse=" ")
  text <- gsub('-', " ", text); text <- gsub('[.,]', "", text)
  text <- stripWhitespace(text); w <- unlist(strsplit(text, " "))
  w <- w[grep("[[:punct:]0-9]", w, invert=TRUE)]
  w <- w[nchar(w) > 2]; l <- substr(w, 2, 2)
  caps <- l == toupper(l); w[!caps] <- tolower(w[!caps])
  words <- c(words, w)
}

words <- words[!words %in% stopwords("SMART")]
stems <- stemDocument(words); t <- table(stems)
# For each stem, use most frequent word to represent it
for(i in 1:length(t)) {
  wt <- table(words[stems == names(t[i])])
  names(t)[i] <- names(wt[which.max(wt)[1]])
}
t <- t[t > 2]
omitfile <- "http://blog.quantitations.com/static/omit.txt"
t <- t[!names(t) %in% readLines(omitfile)]
set.seed(4); wordcloud(names(t), t, colors=1:10)
```