

# Pulak Ghosh

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## EDUCATION:

**2000-present : PhD – Statistics (expected, March 27, 2003)**

Department of Mathematics and Statistics, Oakland University,  
Rochester, MI.

**Thesis Title:** Some Contributions to the Problem of Bioequivalence  
-- A Bayesian Approach.

**Thesis advisor:** Professor Ravindra Khattree .

Courses covered in PhD:

Mathematical statistics 1, Mathematical statistics 2, Real analysis,  
Linear Models, Advanced design of experiments, Categorical data analysis.  
Repeated Measure, Bayesian Statistics.

**1998: MSc (Statistics)**

Department of Statistics, University of Calcutta, India.

Courses covered in MSc:

Mathematical Analysis, Measure Theory and Probability, Algebra, Sampling Hypothesis  
Testing, Linear Models, Design of Experiments, Sample Surveys, Statistical Quality  
Control, Decision Theory, Nonparametric Methods, Econometrics, Linear Programming,  
Demography, Evolution of Statistical Theory.

**Special Papers:** Multivariate Analysis, Advanced Statistical Inference, Advanced  
Econometrics.

**1995: BSc Honors (Statistics, Mathematics and Physics)**

University of Calcutta, India.

## WORK EXPERIENCE:

### Teaching:

- **2000 - Present: Graduate Teaching Assistant** (teaching undergraduate math classes)
- **July 2002 - Aug 2002 : Lecturer**, Department of Mathematics and Statistics  
Oakland University  
Course taught: Linear Programming and Elementary Functions
- **July 2001 - Aug 2001: Workshop Leader** , Department of Mathematics and Statistics,  
Oakland University  
Workshop course: Calculus 1
- **May-2001- June 2001: Supplementary Instructor** for Calculus II
- **June 2000 - Aug 2000: Counselor** in the Summer Math Camp organized by the Dept. of

Mathematics and Statistics, Oakland University.

- **Sep 1999 - Nov 1999: Lecturer** (part-time) in Statistics at BSc Honors Level at S. A. Jaipuria College, University of Calcutta.

### **Research:**

- **2000 - Present:** Working on PhD Dissertation at the Department of Mathematics and Statistics, Oakland University .

### **Consulting:**

- **April 2002 - June 2002: Statistician** in an NSF funded grant
  - Developed statistical models for predicting the hospital length of stay of patients in various units.
  - Provided statistical analysis on any topic of the team's choosing based on project results.
  - Assisted in writing sections of the grant relating to statistical analysis procedures.
- **Sep 2000 - Nov 2000: Graduate Research Assistant**
  - Worked on a project funded by Haden Inc. and Oakland University research grant.
  - Provided statistical analysis on quality and measurement issues in a painting problem.
  - Assisted in writing reports.

### **ARTICLES:**

- Ghosh, P and Khattree, R. (2002) *A Bayesian Approach to Average Bioequivalence using Bayes factor*. Accepted in Journal of Biopharmaceutical Statistics.
- Ghosh, P and Khattree, R. (2002) *Test for Individual and Population Bioequivalence - A Bayesian Approach* , Technical Report, Dept. of Mathematics and Statistics, 2003-2.
- Ghosh, P and Khattree, R. (2002) *Bioequivalence for more than two formulations*, in Preparation.
- Ghosh, P and Khattree, R. (2002) *Individual Bioequivalence for a 2x2 crossover design* - To be submitted
- Ghosh, P and Munk, A. (2002) *Tests for Multivariate Bioequivalence*, in preparation.

### **RESEARCH INTEREST:**

Bayesian Statistics, Bioequivalence Trial, Bioinformatics, Longitudinal Data, Model selection, Spatial Statistics.

### **PRESENTATIONS:**

- **Aug 14, 2002:** “*A new Bayesian approach to average bioequivalence*”, Presented at Joint Statistical Meeting, 2002, New York , ( Invited).
- **Jan 4, 2002:** Attended and presented at the Graduate Teaching Assistant workshop.
- **Nov 14, 2002:** "*Some contributions to Individual and Population Bioequivalence*" Presented at the Department of Mathematics and Statistics, Oakland University.

### **OTHER CONFERENCES:**

- Attended the Fourth Biennial International Conference on Statistics, Probability and related areas, June 14-16, 2002.
- Attended the traveling course on "Permutation Tests: A Guide for Practitioners" organized by ASA Detroit chapter at Wayne State University, May 2001.
- Attended the traveling course on "Data Mining" organized by ASA Detroit Chapter at Oakland University, April, 2002.
- Attended the local meeting of the ASA Detroit Chapter in April 2002 at Oakland University.

### **COMPUTER KNOWLEDGE:**

**Operating systems:** UNIX, Windows

**Programming languages:** Fortran , Pascal

**Statistical software:** SAS, S-PLUS, Minitab, WinBugs, SPSS

**Document preparation:** LATEX, Microsoft office.

### **AWARDS, SCHOLARSHIPS AND ACHIEVEMENTS:**

- Graduate Teaching Assistantship award from Oakland University for **PhD**
- **Student Research Grant** for the best research proposal from the provost's office of Oakland University

### **MEMBERSHIPS:**

American statistical Association, Institute of Mathematical statistics, International Indian Statistical Association.

### **REFERENCES:**

Professor Ravindra Khattree  
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Professor Charles Cheng  
 Department of Mathematics and Statistics  
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