

Rima Izem

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EDUCATION

Ph.D. in Statistics, University of North Carolina at Chapel Hill. Chapel Hill, NC
1999 - present. Expected graduation April 2004
Dissertation advisors, J.S Marron and J.G Kingsolver
Dissertation title, Analysis of Nonlinear Variation of Common Shape Curves

Maitrise de Mathématiques, Université de Montpellier II. Montpellier, France
1998 - 1999. Summa Cum Laude (Mention Bien)

Licence de Mathématiques, Université de Montpellier II. Montpellier, France
1997 - 1998. Summa Cum Laude (Mention Bien)

HONORS AND AWARDS

- American Statistical Association, Computing and Graphics Sections, *Best Student Paper Award*, JSM, Toronto, August 2004.
- Bioinformatics Fellow, Biomedical Engineering Dept, UNC-CH, 10-01-01 to 9-30-03.
- Merit Award Fellow, Graduate School, UNC-CH, Fall 1999.

PRESENTATIONS AND PUBLICATIONS

- Izem R., Marron J.S , Kingsolver J.G (2004). *Analyzing nonlinear variation of thermal performance curves*. Submitted for publication to *Proceedings of the American Statistical Association*.
- Izem R., Marron J.S (2003). *Quantifying nonlinear modes of variation of curves*, Invited speaker, Proceeding of the International Statistical Institute 54th session, August 13-20. Berlin, Germany.
- Izem R. (2003). *Functional Data Analysis in Continuous Reaction Norms: Identifying Nonlinear Variations*, Poster presenter, Functional Data Analysis Workshop, January 10-11. Gainesville, Florida.
- Izem R., Marron J.S (2002). *Functional Data Analysis in Continuous Reaction Norms: Identifying Nonlinear Variations*, Invited speaker, International Conference on Current Advances And Trends in Nonparametric Statistics, July 15-19. Crete, Greece.
- Contributed presentations in 2003 in the departments of Statistics, Biology, and Computer Science at UNC-CH.

SKILLS

- Experience in statistical consulting.
- Programming skills in Matlab, Splus, SAS, and C.
- Familiarity with Unix and Windows 00/NT/XP.
- Working experience in \LaTeX , and Html.
- Fluent in French and Arabic (written, spoken and read).
- Beginner in Spanish (written, spoken and read).

TEACHING EXPERIENCE

Instructor Stat. and Operat. Research Dept. at UNC-CH
Chapel Hill, NC August 2003 - present

- Teach 40 students an introductory statistics class tailored to undergraduate business majors. Responsibilities include: lecturing, designing homework and exams, designing class projects, grading and assigning final grades.

Instructor
Chapel Hill, NC

Continuing Education Dept at UNC-CH
January 2002 - May 2002

- Taught professional students an introductory statistics class. Responsibilities included: lecturing, designing homework and exams, grading and assigning final grades.

Teaching Assistant
Chapel Hill, NC

Statistics Dept at UNC-CH
August 1999 - December 2000

- Graded homework and examinations.
- Tutored undergraduate students in Excel and assisted them during office hours.

RESEARCH
ASSISTANTSHIPS

Research Assistant
Chapel Hill, NC

Biology Dept at UNC-CH
August 2001 - September 2001

- Reviewed and discussed literature of stat. methods applied to evolutionary biology data.
- Conducted exploratory analysis of data in evolutionary biology.

Research Assistant
Chapel Hill, NC

Biostatistics Dept at UNC-CH
January 2001 - April 2001

- Surveyed articles, web sites and software on Data Mining and archived them on a website.

INTERNSHIPS

Christine Mirzyan Science & Policy Intern
Washington, DC

National Academy of Sciences
June 2003 - August 2003

- Wrote an overview paper on statistical validation of complex computer models.
- Surveyed articles and web sites on operational risk.
- Organized a debate on a science policy topic discussing the role of race in epidemiological studies.

Technical Student
Cary, NC

SAS Institute Inc.
June 2001 August 2001

- Updated SAS/STAT external web sites.
- Drafted online help for Power and Sample Size procedure.
- Demonstrated SAS Software at the Joint Statistical Meetings, August 4-9. Atlanta, GA.

ATTENDED
WORKSHOPS AND
CONFERENCES

- SAMSI Internet Tomography workshop, October 12-13 2003. Research Triangle Park, NC.
- Joint Statistical Meetings, August 4-9 2001. Atlanta, GA.
- CBGIST 2001, Atlantic Symposium on Computational Biology and Genome Information Systems & Technology, March 15-17. Durham, North Carolina.
- Pharmacogenomic workshop, February 12-13 2001. Thousand Oaks, CA.

PROFESSIONAL
AFFILIATIONS

- Member, American Statistical Association.
- Member, Institute of Mathematical Statistics.
- Member, Eastern North American Region of the Biometric Society (ENAR).

OTHER
EXPERIENCE AND
ACTIVITIES

- Launched and organized *statlunch*: the graduate student seminar in stat. at UNC-CH in Spring 2003.
- Tutor in Statistics, Disability Services, UNC-CH, January to April 2003.
- Social chair, UNC-CH Statistics Dept, August 2000- May 2001.
- Volunteer Chemistry tutor, Phoenix High School, September to December 2001.
- Tutor in Mathematics, UNC-CH Summer Bridge Program, June to August 2000.
- Volunteer French tutor, Mc Dougle Elementary School, February to April 2000.

RESIDENCY
STATUS

Legal American Resident Alien.

REFERENCES

- **J.S Marron**, Amos Hawley Distinguished Professor
The University of North Carolina at Chapel Hill
Department of Statistics and Operations Research, CB # 3260
Chapel Hill, NC 27599-3260
marron@email.unc.edu
(919) 962-2188
- **Joel G. Kingsolver**, William Rand Kenan, Jr. Professor
The University of North Carolina at Chapel Hill
Coker Hall T, CB # 3280
Chapel Hill, NC 27599-3280
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(919)843-6291
- **N. E. Heckman**, Professor
University of British Columbia
Department of Statistics
Vancouver, BC, V6T 1 Z2
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- **Edward Carlstein**, Professor and Associate Chair
The University of North Carolina at Chapel Hill
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