

## Ross Iaci

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Williamsburg, VA 24185 *E-mail:* riaci@wm.edu  
USA

**Research Interests** Multivariate association, computational statistics, dimension reduction, and applied statistics in life sciences.

**Education** **University of Georgia**, Athens, Georgia USA

Ph.D., Statistics, August 2007

M.S., Statistics, May 2003

**University of Nevada Las Vegas**, Las Vegas, Nevada USA

M.S., Mathematical Science, December, 2000

**University of North Carolina**, Chapel Hill, North Carolina USA

B.S., Mathematical Science, December, 1994

**Honors and Awards** University of Georgia Nomination for National Distinguished Dissertation Award, Council of Graduate Schools, 2008.

Outstanding Graduate Teaching Assistant Award, University of Georgia, 2003.

UNLV Math Department Nomination for Outstanding Thesis in the College of Sciences, 2000-2001.

Phi Kappa Phi honor society member, 1998-present.

National Collegiate Mathematics Award for excellence in mathematics, 1998.

**Publications** Ross Iaci, Xiangrong Yin, T.N. Sriram & Christian Peter Klingenberg. "Information Measures and Dimension Reduction Methods With an Application in Morphometric Analysis". (To appear *The Journal of the American Statistical Association*)

Ross Iaci, T.N. Sriram & Xiangrong Yin. "Multivariate Association and Dimension Reduction: A Generalization of Canonical Correlation Analysis". (Submitted Summer 08 *Biometrics*)

Vicky Albert, Ross Iaci & Sandra Catlin. 2004. Facing Time Limits and Kinship Placements. *Families and Society: The Journal of Contemporary Social Services*, Vol 85, No. 1, pg 63-70.

Albert, V., King, W. & Iaci R (in press). "The economy, TANF returns and temporary time limits: A proportional hazards model". *Social Work Research*.

Anita Singh, Ashok K. Singh & Ross J Iaci. 2002. Estimation of the Exposure Point Concentration Term Using a Gamma Distribution. Technology Support Center Issue Paper, EPA/600/R-02/084.

**Papers in  
preparation**

"A Simple Approach To Estimating The FDR For Tests Based On Multiple p-values In a Microarray Setting". (In progress)

**Papers  
Refereed**

Studia, Sci. Math., Hungarica. 2005.

**Conference  
Presentations**

Ross Iaci. "Multivariate Association and Dimension Reduction". University of Georgia, Department of Statistics, July 16, 2007. (Invited)

Ross Iaci. Colloquium presentation on Computational Multivariate Association Methods for the School of Computational Science and the Department of Statistics, Florida State University, February 26, 2007. (Invited)

Ross Iaci. Colloquium presentation on Multivariate Association Methods for the Department of Mathematics, The College of William and Mary, February 21, 2007. (Invited)

Ross Iaci. Colloquium presentation on Multivariate Association Methods for the Department of Mathematical Science, Florida International University, February 26, 2007. (Invited)

Iaci, R. & Albert, V. "Facing time limits and foster care placements". 4<sup>th</sup> International Conference on Health and Mental Health. Quebec, Canada, May 2004. (Contributed)

Albert, V. & Iaci, R. "Reaching time limits and Mental Health Factors". 4<sup>th</sup> International Conference on Health and Mental Health. Quebec, Canada, May 2004. (Contributed)

Ross Iaci. "The Gamma Distribution as an Alternative to the Lognormal Distribution in Environmental Applications". 4<sup>th</sup> International Environmental Chemometrics Conference. Las Vegas, Nevada, September 2000. (Invited)

**Research  
Reports to  
Sponsor**

Albert, V. & Iaci, R. "Meeting timely permanence in Foster Care: The Nevada Experience". University of Nevada, Las Vegas. Prepared for State of Nevada, Division of Child and Family Services. Carson City, NV: July, 2004, 75 pages.

Albert, V. Iaci, R. & Nix, L. "Visitation practices in foster care: best practices and the Nevada experience". University of Nevada, Las Vegas. Prepared for State of Nevada, Division of Child and Family Services. Carson City, NV: July, 2004, 50 pages.

Albert. V. , Catlin S., Iaci, R. & Smith L. "The Impact of Welfare Reform on Foster Care: Preliminary Findings". University of Nevada, Las Vegas. Prepared for the State of Nevada, Division of Child and Family Services. Carson City, NV: July, 2001,120 pages.

**Research  
Experience in  
Funded  
Projects**

**Research Assistant** **2000 - 2005**

Data manager/Statistician. (with Dr. Vicky Albert, Co-PI). Planning for Immigration Growth. UNLV President Harter Planning Initiative Award.

- Responsibilities - Used Current Population Survey data and public assistance administrative data to create household-level data and aggregate time series data for immigrants in Nevada. The data are used to examine patterns of social service usage among immigrants in Nevada.

Data manager/Statistician. (with Dr. Vicky Albert, PI). The impact of Welfare Reform on Child Welfare. Nevada Division of Child and Family Services. Fiscal Years 2000-02.

- Responsibilities - Using SAS, created and managed longitudinal person and family level records and databases from existing snapshot monthly administrative public assistance and child welfare statewide data; merged databases; constructed longitudinal variables; constructed some economic time varying variables; used dynamic analyses; contributed to final reports.

Data Manager/Statistician (with Dr. Vicky Albert, PI). Together or Apart: Nevada's Tale of sibling placements in foster care. Nevada Division of Child and Family Services, Fiscal Year 2002-03.

- Responsibilities - Using SAS and existing Foster Care monthly snapshot administrative data, updated longitudinal person level and household records, traced dynamic individual and sibling group movements; contributed to final reports.

Data Manager/Statistician (with Dr. Vicky Albert, PI). Explaining timely permanence in Nevada and Identifying visitation practices that lead to successful outcomes. Nevada Division of Child and Family Services, Fiscal Year, 2003-04.

- Responsibilities - Using SAS and existing Foster Care monthly administrative data, updated longitudinal person level records, traced length of stay in care; contributed to final reports.

## Teaching Experience

*WM- Assistant Professor* **Fall, 2008**

- Mat 351/510 - Statistics. A senior/graduate level course on statistics for scientists and engineers.
- Mat 106 - Introductory Statistics. An introductory course on descriptive statistics, random variables, probability and sampling distributions, confidence intervals and hypothesis testing.

*WM- Assistant Professor* **Fall, 2007 - Spring, 2008**

- Mat 401/501 - Probability. A senior/graduate level course on mathematical probability.
- Mat 452/552 - Mathematical Statistics II. A senior/graduate level course on mathematical statistics.
- Mat 106 - Introductory Statistics. An introductory course on descriptive statistics, random variables, probability and sampling distributions, confidence intervals and hypothesis testing.

*UGA- Teaching Assistant (Instructor)* **Fall, 2001 - Summer 2007**

- STAT 2000 - Elementary Statistics. An introductory course on descriptive statistics, random variables, probability and sampling distributions, confidence intervals and hypothesis testing.

*UNLV-Teaching Assistant (Instructor)* **January, 1997 - December, 1998**

- MAT 120 - Fundamentals of College Mathematics. An introductory course on real numbers, consumer mathematics, functions, geometry, probability, sets and logic.

*UNLV-Lecturer* **August, 2000 - December, 2000**

- MAT 126-127 - Precalculus I & II. Courses focusing on the topics: fundamentals of algebra, functions and graphs, polynomial, rational, exponential and logarithm functions; systems of linear equations and equalities; circular functions, trigonometric identities and equations, conic sections, complex numbers, and discrete algebra.

*UNLV-Lecturer* **July, 2004 - August, 2004**

- SWK 746 - Summer Social Work Research Seminar (Co-taught with Dr. Vicky Albert). Course focuses on principles of scientific method, research designs, sampling, descriptive statistics, some probability theory, univariate analysis.

## Professional Experience

**Regent Hotel and Casino, Las Vegas, Nevada USA**

*Casino Statistician* **November, 1998 - August, 2000**

- Responsibilities - Statistical analysis of slot machine performance, administrator of OASIS information management system, prepared financial gaming reports.

## Professional Memberships

Member, Institute of Mathematical Statistics.

Member, American Statistical Association.