

Philip Aaron Yates

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Los Angeles, CA 90027
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EDUCATION

University of South Carolina, Columbia, SC.
Ph.D. in Statistics: December 2006.
Dissertation: *Methods for the Analysis of Flood Frequency Distributions*.
Advisor: John M. Grego

The University of Vermont, Burlington, VT.
M.S. in Biostatistics: May 1999.
Advisor: Larry D. Haugh

DePaul University, Chicago, IL.
B.S. in Mathematical Sciences; Minor in Economics: June 1997.

EMPLOYMENT

Assistant Professor, Saint Michael's College
Department of Mathematics
August 2010 – present

Assistant Professor, California State Polytechnic University, Pomona
Department of Mathematics & Statistics
September 2007 – June 2010

Analytic Services Executive, The Nielsen Group, Glenview, IL
January 2007 – August 2007

Senior Analytic Services Associate, AC Nielsen, Glenview, IL
September 2005 – December 2006

Teacher, Saint Gregory the Great High School, Chicago, IL
June 2004 – June 2005

Graduate Instructor, University of South Carolina
Department of Statistics
August 1999 – May 2004

Graduate Teaching Fellowship, The University of Vermont
Department of Mathematics & Statistics
September 1997 – June 1999

Student Statistician, The University of Vermont
Biostatistics Program and Department of Orthopaedics & Rehabilitation
June 1998 – June 1999

Tutor & Grader, DePaul University
Department of Mathematical Sciences
September 1996 – June 1997

COURSES

SAINT MICHAEL'S COLLEGE

- MA 102: Elementary Statistics.
- MA 251: Probability and Statistics.

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

- MAT 114: Analytic Geometry and Calculus I.
- STA 120: Statistics with Applications.
- STA 241: Applied Probability Theory.
- STA 310: Sampling Theory and Applications.
- STA 326: Statistical Methods for Computer Scientists.
- STA 341: Applied Statistics.
- STA 432: Applied Regression Analysis.
- STA 533: Linear Statistical Models I.
- STA 534: Linear Statistical Models II.
- STA 565: Multivariate Analysis.

UNIVERSITY OF SOUTH CAROLINA

- STAT 110: Introduction to Descriptive Statistics.
- STAT 201: Elementary Statistics.
- STAT 516: Statistical Methods II.

HONORS AND
AWARDS

California Delta Chapter of Kappa Mu Epsilon, Honorary Member, 2008
Project NExT Fellow, Sun Dot, 2007–2008
Student Paper Competition Award, American Statistical Association, South Carolina Chapter Annual Meeting, 2004
Outstanding Statistics Graduate Teaching Assistant, University of South Carolina, 2001–2002, 2002–2003
Mu Sigma Rho Honor Society for Statistics, University of South Carolina, 2000
Graduate Award in Biostatistics, The University of Vermont, 1999
Sang Kil Nam Scholarship in Statistics, The University of Vermont, 1999
Graduate with High Honors, B.S., DePaul University, 1997
St. Vincent de Paul Award for Community Service, DePaul University, 1997
Golden Key Honor Society, DePaul University, 1995
Dean's Award for Scholastic Excellence, DePaul University, 1994–1995, 1995–1996

RESEARCH
INTERESTS

Applied statistics, statistical education, statistical consulting.
Applications to environmental science, biology, political science, and sports.

GRANTS AND
CONTRACTS

United States Department of Agriculture, Forest Service
Pacific Southwest Region, San Bernardino National Forest
Role: "Professional Mathematical and Statistical Services"
October 2009 – March 2014, up to \$270,000 (currently \$3,000)

Philip Aaron Yates

United States Department of Agriculture, Forest Service
San Dimas Technology & Development Center

Title: "Greater Yellowstone Area Snowmobile Use Monitoring Evaluation"
Contractor, July 2009 – October 2009, \$2,500

NSF Enhancing the Mathematical Sciences Workforce in the 21st Century (EMSW21)
Mentoring Through Critical Transition Points (MCTP)

Title: "The NSF Euphemia Scholars Program: A Mentorship Alliance Increasing Ph.D.
Bound U.S. Mathematical Baccalaureates"
Co-principal Investigator, **submitted** June 2009, \$800,000 over 5 years

The Pew Charitable Trusts: Making Voting Work

Title: "How Does Vote By Mail Affect Voters? A natural experiment examining individual
level turnout"

Statistical Consultant, November 2008 – June 2009, \$36,700

United States Department of Agriculture, Forest Service
San Dimas Technology & Development Center

Title: "Black Powder Ignition Study"
Contractor, October 2008 – November 2008, \$2,000

PUBLICATIONS
AND PAPERS

ARTICLES

Reyes, Edward A. and Yates, Philip A. (**submitted**, 2010) "The PING Ratings: A Model
for Rating NCAA Baseball Teams," *Journal of Quantitative Analysis in Sports*.

Rockoff, David and Yates, Philip. (**submitted**, 2010) "Joe DiMaggio Done It Again...and
Again and Again and Again?" *CHANCE*.

Addona, Vittorio and Yates, Philip. (**submitted**, 2009) "A Closer Look at the Relative Age
Effect in the National Hockey League," *Journal of Quantitative Analysis in Sports*.

Grego, John M. and Yates, Philip A. (**submitted**, 2009) "Point and Standard Error Esti-
mation for Quantiles of Mixed Flood Distributions," *Journal of Hydrology*.

Rockoff, David M. and Yates, Philip A. (2009) "Chasing DiMaggio: Streaks in Simulated
Seasons Using Non-Constant At-Bats," *Journal of Quantitative Analysis in Sports: Vol. 5;*
Iss. 2, Article 4.

Yates, Philip A. (2008) "Estimating Situational Effects on OPS," *Journal of Quantitative
Analysis in Sports: Vol. 4: Iss. 2, Article 2*.

BOOKS & MANUALS

Philip Yates. (2010) SPSS Manual to accompany *Discovering Statistics Brief Version* by
Daniel T. Larose. W.H. Freeman and Company, New York.

WORKING PAPERS

Grego, John M. and Yates, Philip A. "Censored Data Methods for Modeling Annual Peak
Flood Flows."

TECHNICAL REPORTS

Haston, D. V.; Finney, M. A.; Horcher, A.; Yates, P. A.; Detrich, K. (2009) *Ignition Potential
of Muzzle-Loading Firearms: An Exploratory Investigation*. U.S. Department of Agriculture,
Forest Service, National Technology & Development Program. 5100–Fire Management;
April 2009. 0951 1802–SDTDC; San Dimas Technology & Development Center, San Dimas,
California. 28 p.

PRESENTATIONS
AND TALKS

"Instructor Characteristics Associated with Student Appreciation of Statistics."
Joint Statistical Meetings, Vancouver, British Columbia, Canada, 2010

- “A Closer Look at the Relative Age Effect in the National Hockey League.”
Poster Presentation, Joint Statistical Meetings, Vancouver, British Columbia, Canada, 2010
- “How High’s the Water, Mama? Statistical Methods For Flood Frequency Distributions.”
Mathematics Colloquium, Saint Michael’s College, January 18, 2010
- “Hitting Streaks in Seasons Using Non-Constant Batting Averages.”
Poster Presentation, New England Symposium on Statistics in Sports, 2009
- “Chasing DiMaggio: Streaks in Simulated Seasons Using Non-Constant At-Bats.”
Poster Presentation, Northern California Symposium on Sports and Operations Research in Sports, 2008
- “Mixture Methods for the Analysis of Flood Frequency Distributions.”
WNAR-IMS Meeting, University of California, Davis, 2008
- “Methods for the Analysis of Flood Frequency Distributions.”
Mathematics Colloquium, California State University, San Bernardino, April 16, 2008
- “Methods for the Analysis of Flood Frequency Distributions.”
Statistics Colloquium, Pomona College, April 1, 2008
- “Using Gibbs Sampling to Estimate the Situational Effects on OPS.”
Poster Presentation, New England Symposium on Statistics in Sports, 2007
- “Estimation of a Mixture of Two Three-Parameter Gammas.”
American Statistical Association, South Carolina Chapter Annual Meeting, 2004
- “Cost-Effectiveness of Treatments for First-Time Ankle Sprains.”
Graduate Student Research Day, The University of Vermont, 1999

COLLEGE &
DEPARTMENT
SERVICE

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

- Assessment Committee, 2008 – 2010
– Coordinator, 2008 – 2010
- Advisor, Kappa Mu Epsilon/Math-Stat Club, 2008 – 2010
- Recruitment Outreach Committee, 2007 – 2010
– Co-chair, 2007 – 2008
- Statistics Group, 2007 – 2010
- Chair Evaluation Committee, 2010
- Honorary Doctorate Committee, 2009
- Computer Committee, 2009
- Supervisor, Putnam Mathematical Competition, Cal Poly Pomona Team, 2008 – 2009
- Graduate Committee, 2007 – 2008

PROFESSIONAL
SERVICE

- Reviewer, *Elsevier Science/Academic Press*, 2009
- Judge, Southern California Chapter of the American Statistical Association, High School Poster Competition, 2009
- Judge, Student Poster Contest, Spring Meeting, Southern California-Nevada Section of the MAA, California Lutheran University, 2009
- Moderator, Pacific Coast Undergraduate Mathematics Conference, University of California, Riverside, 2009
- Department Representative, CAUSE: Consortium for the Advancement of Undergraduate Statistics Education, 2008 – 2010

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Facilitator, Probability & Statistics Breakout Session, Project NExT Meeting, University of Wisconsin, Madison, 2008

Co-organizer, "Recruiting Mathematics Majors for Your Institution." Project NExT Meeting, University of Wisconsin, Madison, 2008

Judge, High School Poster Competition, Careers Day in Statistics, Southern California Chapter of the American Statistical Association, 2008

Judge, Undergraduate Student Poster Session, Joint AMS-MAA Mathematics Meeting, 2008

Referee, *Journal of Quantitative Analysis in Sports*, 2008

OTHER
SERVICE

Educator.com, AP Statistics Instructor, 2008–2009

Emcee, MATHCOUNTS East San Gabriel Valley Chapter Competition, 2008 – 2010

Member, California Partnership for Achieving Student Success (Cal-PASS) Mathematics Professional Learning Council, Los Angeles Consortium, 2007 – 2009

Secretary, Mu Sigma Rho, University of South Carolina Chapter, 2000 – 2001

President, Statistics-Biostatistics Journal Club, The University of Vermont, 1998 – 1999

Amate House, DePaul University House, Young Adult Volunteer Program, Archdiocese of Chicago, 1995 –1996, 1996 – 1997

STUDENTS

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

Tiffany Chao, M.S. Candidate in Mathematics, Statistics Emphasis

Maria M. Perez, M.S. Candidate in Mathematics, Statistics Emphasis

Edward A. Reyes, M.S. in Mathematics, Statistics Emphasis, August 2009

MEMBERSHIP

American Statistical Association

Mathematical Association of America

The Society For American Baseball Research

WNAR: The Western North American Region of the International Biometric Society