CURRICULUM VITAE

Charles A. Rohde

Part II

TEACHING

<u>DISSERTATIONS SUPERVISED</u>

Saul Rosenberg, "Topics in Variance Component Estimation," PhD, Biostatistics, 1969.

Young Kim, "Some Estimation Problems in Branching Processes," PhD, Biostatistics, 1972.

Margaret Wu, "Asymptotic Behavior of Posterior Distributions and Bayes' Estimation for the Independent No Identically Distributed Case, PhD, Homewood Campus, 1973.

Paul Corey, "Contributions to the Theory of Two State Markov Chains," PhD, Biostatistics, 1975.

William Cumberland, "Dynamics of Populations with Ornstein-Uhlenbeck Vital Rates," PhD, Biostatistics, 1975.

William Dupont, "A Stochastic Method for Estimating Animal Abundance from Catch-Effort Data," PhD, Biostatistics, 1976.

Jeanette Yen Lee, "Likelihood Techniques for Discrete Distributions," PhD in Biostatistics, 1976.

Linda Pickle, "Methods for Likelihood Inference for the Relative Risk Function," PhD in Biostatistics, 1977.

Ellen J. MacKenzie, "Measuring Inter-Rater Reliability of Dichotomous Responses: A Components of Variance Approach," PhD, Biostatistics, 1979.

Mary M. Yurachek, "Estimation of the Safe Dose of a Carcinogen: A Comparison of Two Techniques," Sc.M., Biostatistics, 1980.

Bruce Thompson, "Dose Response Curve for Chemical Carcinogens: An Interaction Between Statistics and Toxicology." PhD in Biostatistics, 1981.

DISSERTATIONS SUPERVISED (continued)

Maureen G. Maguire, "Detecting Monotone Trend in Relative Odds in 2x2 Tables", PhD in Biostatistics, 1983.

Marie D. Diener, "Reaction Time Models - A Mixed Model and Bayesian Approach", PhD in Biostatistics, 1983.

Hubert A. Allen, Jr., "Methods of Estimating Neck Band Survival Analysis: Applied to Studies of the Tundra Swan (Cygnus Columbianus Columbianus)", ScM in Biostatistics, 1985.

Warren J. Strauss, "Marginal Models for Longitudinal Data - An Application to Soil Lead Abatement", ScM in Biostatistics, 1993.

Jingyee Kou "A Predictive Spatial-Temporal Model for Boreal Forest Succession," PhD in Biostatistics, 2000

Lisa Strug "A Four Plot Method for Determining Sample Size," ScM, Biostatistics, 2001

Wesley D. Eddings, "Topics in the Philosophy of Statistics: Methods, Data and Theory," PhD, Biostatistics, 2003

Amanda L. Blackford, "Likelihood Models for Smoking Rates in Different National Groups," Sc.M., Biostatistics, 2003

Lisa Strug "Evidential Sample Size," PhD, Biostatistics, 2003

Ravi Varadhan "The Role of the Design Analysis, and Computation in Addressing Etiology in Three Types of Public Health Studies," PhD, Biostatistics, 2004

Kathryn Ziegler "Exploratory Inference," PhD, Biostatistics, 2007

PRELIMINARY ORAL EXAMINATIONS

Raymond Chambers, Ph.D, Biostatistics, 1981
Karin Johnson, Dr.PH, Maternal and Child Health, 1982
Donna Parker, Sc.D, Maternal and Child Health, 1982
Patricia St.Clair, Sc.D, Maternal and Child Health, 1983
Margaret Connolly, Ph.D, Biostatistics, 1985
Diouratie Sanogo, Ph.D, Population Dynamics, 1985
John Quinley, Dr.PH, International Health, 1986
Myron Waclawiw, Ph.D, Biostatistics, 1987
Ying Huang, Ph.D, Biostatistics, 1989
Tsung-Shan Tsou, Ph.D, Biostatistics, 1989
Patricia Newman, Sc.D, Health Policy Management, 1989
PRELIMINARY ORAL EXAMINATIONS (continued)

Yue-Cune Chang, Ph.D, Biostatistics, 1989
Ghulam Soomro, Sc.D, Population Dynamics, 1990
Yutaka Yasui, Ph.D, Biostatistics, 1991
Beverly Mellen-Harrison, Ph.D, Biostatistics, 1992
Stirling Hilton, PhD, Biostatistics, 1992
Josephine Bowdler, Dr. PH. International Health, 1993
Hui-Chu Lang, PhD, Health Policy & Management, 1995
Chuanfa Guo, PhD, Biostatistics, 1995
Abhik Das, PhD, Biostatistics, 1997
Colleen Carpenter, PhD, International Health, 2004
Agbessi Amouzou, PhD, Population & Family Health Sciences
Kathryn Ziegler, PhD, Biostatistics, 2004
Liwei Chen, PhD, International Health, 2006

FINAL ORAL EXAMINATIONS/THESIS

Saul H. Rosenberg, PhD, Biostatistics, 1969
Young Kim, PhD, Biostatistics, 1972
Margaret Wu, PhD, Mathematical Sciences, Homewood, 1973
Paul Corey, PhD, Biostatistics, 1974
William G. Cumberland, PhD, Biostatistics, 1975
Jeanette Yen Lee, PhD, Biostatistics, 1976
William Dupont, PhD, Biostatistics, 1976
Linda Pickle, PhD, Biostatistics, 1977
Ellen MacKenzie, PhD, Biostatistics, 1979
Phyllis Giovannetti, Sc.D, Health Policy and Management, 1981
David Ross, Sc.D, Health Policy and Management, 1981
Raymond Chambers, Ph.D, Biostatistics, 1982
Bruce Thompson, Ph.D, Biostatistics, 1982
Marie Diener, Ph.D, Biostatistics, 1983
Maureen Maguire, Ph.D, Biostatistics, 1983
Monigue G. Julien, Dr. PH, Health Policy and Management, 1985
William J. Huster, Ph.D, Biostatistics, 1984
Peter Lees, Ph.D, Environmental Health Sciences, 1985
Hubert Allen, Sc.M, Biostatistics, 1985
Mohammed R. Karim, Biostatistics, 1986
Tippavan Nagachinta, Dr.PH, Epidemiology, 1986
Elizabeth Grossman, Ph.D, Biostatistics, 1986
Margaret Connolly, Ph.D, Biostatistics, 1987
Myron Waclawiw, Ph.D, Biostatistics, 1989
Lynn Onstad, Sc.M, Biostatistics, 1989
Patricia Hart Neuman, Sc.D, 1993
Ying Huang, Ph.D, Epidemiology, 1993
FINAL ORAL EXAMINATIONS/THESIS (continued)

Warren Strauss, Sc.M, Biostatistics, 1993
Patricia Ann Stewart, Ph.D, Epidemiology, 1994
Jennifer Reimers Schroeder, Sc.M, Biostatistics, 1995
Beth Melton, Ph.D, Biostatistics, 1995
Linda Gambone, PhD, Environmental Health Sciences, 1995
Susan Gross, PhD, Maternal and Child Health, 1995
Jana Kesavanathan, PhD, Environmental Health Sciences, 1995
Itziar Larizgoita, Dr. PH, Health Policy & Management, 1996
Ling Wu, Ph.D, Population Dynamics, 1996
John Robinson, PhD, Health Policy and Management, 1996
Theodore Paul Chiappelli, PhD, Health Policy & Management, 1996
Anthony Tucker, PhD, Health Policy & Management, 1996
Yen-Hong Kuo, Sc.M, Biostatistics, 1996
Paul J. Rathouz, PhD, Biostatistics, 1997
Wenchi Liang, PhD, Health Policy & Management, 1997
Firas Mourtada, PhD, Environmental Health Sciences, 1997
Paul A. Locke, DrPh, Environmental Health Sciences, 1997
Ta-Chun Lin, PhD, Environmental Health Sciences, 1997
Abik Das, PhD, Biostatistics, 1998
Chuanfa Guo, PhD, Biostatistics, 1998
Sarah Gray, PhD, Biostatistics, 1998
Wiroj Jiamjarasrangsi, PhD, Epidemiology, 1998
Akiko Maeda, PhD, Health Policy & Management, 1999
Carolyn F. Masters, PhD, 1999
Mary Mahy, Sc.D., 1999
Jill Suzanne Litt, PhD, Health Policy & Management, 2000
Chandan Manikonda Sasty, Ph.D, Environmental Health Sciences, 2000
Patricia Robbins Roebuck, PhD, Environmental Health Sciences, 2000
Zaruhi V. Babayan, PhD, Epidemiology, 2000
Anita Chen, Sc.M., Biostatistics, 2000
Jingyee Kou, PhD, Biostatistics, 2000
Aleks Stefaniak, PhD, Environmental Health Sciences, 2000
Wiroj Jiamjarasrangsi, PhD, Epidemiology, 2001
Victor Shih-Kuang Fan, PhD, 2001
Lisa Strug, Sc.M., Biostatistics, 2001
Ming-Yu Fan, Biostatistics, 2002
Desmond I Bannon, Environmental Health Sciences , 2002
Christine S. Vogeli, PhD, Health Policy & Management, 2003
Wesley D. Eddings, PhD, Biostatistics, 2003
Amanda L. Blackford, Sc.M., Biostatistics, 2003
Lisa Strug, PhD, Biostatistics, 2003, University of Toronto
Aleksandr B. Stefaniak, PhD, Environmental Health Sciences, 2003
Lisa Marie Sacco, PhD, International Health, 2003
FINAL ORAL EXAMINATIONS/THESIS (continued)

William Alexander, PhD, Environmental Health Sciences, 2004

James J. McDevitt, PhD, Environmental Health Sciences, 2004
Ravi Varadhan, PhD, Biostatistics, 2004
Ana Marie Rule, PhD, Environmental Health Sciences, 2005
Agbessi Amouzou, PhD, Population and Family Health, 2006
Michael E. Mussolino, PhD, Epidemiology, 2006
Agbessi Amouzou, PhD, Population and Family Health Sciences, 2006
Jinhee Bae, PhD, Environmental Health Science, 2006
Kathryn Ziegler, PhD, Biostatistics, 2006
Keson Theppeang, PhD, Environmental Health Sciences, 2007
Liwei Chen, Ph.D., International Health, 2007

<u>Classroom Instruction</u> (since 1981)

<u>1981-1982</u>
      Biostatistics   14A,B15   Introduction to Probability
      Biostatistics   14A,B16   Introduction to Statistic
      Pathobiology 526(A,B)05   *Biostatistics 23 Quantitative Ecology
      Biostatistics   14A,B,C25   Statistical Theory

<u>1982-1983</u>

      Biostatistics   14A,B15   Introduction to Probability
      Biostatistics   14A,B16   Introduction to Statistic
      Biostatistics   14A33   Design of Experiments

<u>1983-1984</u>

      Biostatistics   14A,B15   Introduction to Probability
      Biostatistics   14A,B16   Introduction to Statistic
      Biostatistics   14A33   Design of Experiments

<u>1984-1985</u>

      Biostatistics   14B02   Intermediate Biostatistics
      Biostatistics   14A,B15   Introduction to Probability
      Biostatistics   14A,B32   Advanced Linear Models I and II

<u>1985-1986</u>

      Biostatistics   14A,B15   Introduction to probability
      Biostatistics   14A,B32   Advanced Linear Models I & II
      Applied Physics Laboratory 62.721   Probability/Stochastic Process

Classroom Instruction (continued)

1986-1987

      Biostatistics   140.602.01-03   Biostatistical Analysis
      Biostatistics   140.732.01-02   Advanced Linear Models I & II

1987-1988

      Biostatistics   140.602.01-03   Biostatistical Analysis
      Biostatistics   140.732.01-02   Advanced Linear Models I & II
      Applied Physics Laboratory 62.721   Probability/Stochastic Process

1988-1989

      Biostatistics   140.602.01-03   Biostatistical Analysis
      Biostatistics   140.732.01-02   Advanced Linear Models I & II
      Applied Physics Laboratory 62.726   Theory of Statistics II

1989-1990

      Biostatistics   140.601.02   Basic Biostatistics-Inference
      Biostatistics   140.732.01-02   Advanced Generalized Linear
                                            Models I and II
      Montgomery Co. 145.601   Introduction to Biostatistics
      Montgomery Co. 140.601   Basic Biostatistics-Inference

1990-1991

      Biostatistics   140.602   Basic Biostatistics-Inference
      Biostatistics   140.603   Basic Biostatistics - Statistical Modelling
      Biostatistics   140.605   Basic Biostatistics-Statistical Models in Biology
      Biostatistics   140.750-751   Advanced Generalized Linear Models I and II
      Montgomery Co. 140.602   Basic Biostatistics

1991-1992

      Biostatistics   140.603   Basic Biostatistics
      Biostatistics   140.605   Basic Biostatistics - Statistical Modelling in
                                            Biology
      Biostatistics 140.643   Applied Multivariate Statistics I
      Montgomery Co. 140.603   Basic Biostatistics - Statistical Modelling

Classroom Instruction (continued)

1992-1993

Biostatistics	140.603	Statistical Modelling
Biostatistics	140.643	Applied Multivariate Statistics I
Biostatistics	140.680	Introduction to Probability I
Biostatistics	140.681	Introduction to Probability II

1993-1994

Biostatistics	140.602	Basic Biostatistics-Inference
Biostatistics	140.603	Basic Biostatistics - Statistical Modelling
Biostatistics	140.643	Applied Multivariate Statistics I
Montgomery Co.	140.603	Basic Biostatistics - Statistical Modelling

1994-1995

Biostatistics	140.602	Basic Biostatistics-Inference
Biostatistics	140.603	Basic Biostatistics - Statistical Modelling
Montgomery Co.	140.603	Basic Biostatistics - Statistical Modelling

1995-1996

Biostatistics	140.603	Basic Biostatistics - Statistical Modelling
Biostatistics	140.643	Applied Multivariate Statistics I
Biostatistics	140.644	Applied Multivariate Statistics II
Biostatistics	140.750	Advanced Generalized Linear Models I
Biostatistics	140.751	Advanced Generalized Linear Models II
Montgomery Co.	140.601	Introduction to Biostatistics
Montgomery Co.	140.602	Basic Biostatistics-Inference
Montgomery Co.	140.603	Basic Biostatistics-Statistical Modelling

1996-1997

Biostatistics	140.750	Advanced Generalized Linear Models I
Biostatistics	140.751	Advanced Generalized Linear Models II
Montgomery Co.	140.601	Introduction to Biostatistics
Montgomery Co.	140.602	Basic Biostatistics-Inference
Montgomery Co.	140.603	Basic Biostatistics-Statistical Modelling

1997-1998

Biostatistics 140.603	Basic Biostatistics - Statistical Modelling
Biostatistics 140.604	Basic Biostatistics - Observational

Studies

<u>Classroom Instruction</u> (continued)

<u>1998-1999</u>

Biostatistics	140.751	Advanced Generalized Linear Models I
Biostatistics	140.752	Advanced Generalized Linear Models II
Biostatistics	140.653	Methods in Biostatistics III
Biostatistics	140.654	Methods in Biostatistics IV

<u>1999-2000</u>

Biostatistics	140.751	Advanced Generalized Linear Models I
Biostatistics	140.752	Advanced Generalized Linear Models II
Biostatistics	140.653	Methods in Biostatistics III
Biostatistics	140.654	Methods in Biostatistics IV

2000-2001

Biostatistics	140.751	Advanced Generalized Linear Models I
Biostatistics	140.752	Advanced Generalized Linear Models II
Biostatistics	140.653	Methods in Biostatistics III
Biostatistics	140.654	Methods in Biostatistics IV

2001-2002

Biostatistics	140.751	Advanced Generalized Linear Models I
Biostatistics	140.752	Advanced Generalized Linear Models II
Biostatistics	140.653	Methods in Biostatistics III
Biostatistics	140.654	Methods in Biostatistics IV

<u>2002-2003</u>

Biostatistics	140.751	Advanced Generalized Linear Models I
Biostatistics	140.752	Advanced Generalized Linear Models II
Biostatistics	140.773	Foundations of Statistics I

2003-2004

Biostatistics	140.671	Introduction to Probability I
Biostatistics	140.672	Introduction to Probability II
Biostatistics	140.774	Foundations of Statistics II

Classroom Instruction (continued)

2004-2005

Biostatistics		140.671	Introduction to Probability I
Biostatistics		140.672	Introduction to Probability II
Biostatistics		140.774	Foundations of Statistics II

2005-2006

Biostatistics	140.671	Introduction to Probability I
Biostatistics	140.647	Essentials of Biostatistics II
Biostatistics	140.648	Essentials of Biostatistics III
Biostatistics	140.774	Foundations of Statistics II

2006-2007

Biostatistics	140.648	Essentials of Probability & Statistical Inference III
Biostatistics	140.649	Essentials of Probability & Statistical Inference IV
Biostatistics	140.774	Foundations of Statistics II

2007-2008

Biostatistics	140.671	Introduction to Probability I
Biostatistics	140.672	Introduction to Probability II
Biostatistics	140.648	Essentials of Probability & Statistical Inference III
Biostatistics	140.649	Essentials of Probability & Statistical Inference IV

RESEARCH GRANT PARTICIPATION/CURRENT

"Microcredit and Health Services Experiment in Bangledash" 06/01/06 – 5/31/10
 NICHD
(Becker, S), 8%
The major goals of this project are to test the relative effects of separately and jointly introducing micro-credit and essential health services package interventions on women's empowerment and use of preventive health services in groups of villages in central Bangledash.
Role: Co-investigator

RESEARCH GRANT PARTICIPATION/CURRENT (continued)

"Promoting Child Mental Health: RCT of Home Visiting" 05/26/00-03/31/08
NIH/NIMH
Duggan AK, 5%
The goal of this research is to assess, through continuation of a randomized trial of a statewide program, the effectiveness of early home visitation of at-risk families in promoting school readiness and academic achievement in the critical first years of school.
Role: Co-investigator

"Mechanisms of Preferential Motor Reinneruation" 04/01/03-03/31/08
NIH/NINDS
T. Brushart, 5%
To examine mechanism of preferential motor reinneruation in the nervous system.
Role: Co-investigator

"Mechanisms of Accelerated Graft Arteriosclerosis" 05/01/03-04/30/08
NIH/NHLBI
A1 Baldwin, 10%
This program project investigates mechanisms of chronic rejection in heart transplants. Both human specimens and animal models are studied.
Role: Co-investigator

"Restless Legs Syndrome-The Iron-Dopamine Connection" 06/15/04-05/31/09
NIH/NIA
Earley, C.J, 10%

This is composed of 4 projects and 3 cores. Treatment of RLS patients with IV iron is one project. PET scan assessment of dopaminergic function on RLS patients is the second project. An assessment of iron and dopamine in the brain using animals to model RLS, as well as brain autopsy material from RLS patients are the third and fourth projects.
Role: Co-investigator

"Mechanisms of Dopamine and Serotonin in Tourette Syndrome" 07/01/06-06/30/11
N IMH
Wong D, 5%   Examine dopamine and serotonin aspects of Tourette Syndrome
Role: Co-investigator

RESEARCH GRANT PARTICIPATION/PREVIOUS

1 R21 DA16182-02   09/01/04-08/31/07

NIH/NIDA (R33 Portion)
(Mathews W), 5%

Development of PET Radioligands for Glutamate
The goal of this project is to develop radioligands for imaging glutamate receptors.
Co-investigator

5R01AA012837-03   07/01/02-03/31/07
NIH/NIAAA
(McCaul, E), 5%
Dopamine: Alcohol Risk and Sensitivity
Role: Co-investigator

5R01AA012837-03   07/01/02-03/31/07
NIH/NIAAA
(McCaul, E), 5%
Dopamine: Alcohol Risk and Sensitivity
Role: Co-investigator

Molecular & Behavioral Effects of Low Level Mn Exposure 02/18/02-11/30/06
NIEHS
(T. Guilarte), 5%
Examine effects of Mn exposure on brain function in human primates.
Co-investigator

P60MD00214   09/28/02-08/31/07

NIH/NCMHHD
(LaVeist T), 5%
Center for Health Disparities
This is a proposal to establish the Morgan-Hopkins Center for Health Disparities Studies.
Role: Co-investigator

1R01ES1097501   02/18/02-11/30/06

NIH/NIEHS
(T. Guilarte), 5%
Molecular & Behavioral Effects of Low Level Mn Exposure
Examine effects of Mn exposure on brain function in human primates.

"Hypothalamic-Pituitary-Adrenal Axis and Alcoholism," 08/01/00-04/30/05, NIH
(Wand G), 5%

This study tests the hypothesis that stress-induced cortisol production is correlated with mesolimbic dopamine release within the brain reward pathway.
Co-investigator
RESEARCH GRANT PARTICIPATION/PREVIOUS (continued)

"Promoting Child Mental Health: RCT of Home Visiting," 04/01/02-03/31/05, NIMH (Duggan AK), 5%
The goal of this research is to assess, through continuation of a randomized trial of a statewide program, the effectiveness of early home visitation of at-risk families in promoting school readiness and academic achievement in the critical first years of school.
Co-investigator

"Imaging Dopamine Release/Endocrine Changes in Alcoholism," 09/01/01-08/31/05, NIAAA (Wong), 5%
To learn more about the genetic and environmental risk factors for alcoholism
Co-investigator

"Analysis of the Cardiac Access Study," 04/01/02-03/31/04
AHRQ
(LaVeist R), 15%
The present study seeks support to use a unique data source designed to address the issue of race disparities in access and utilization of coronary angiography. The purpose of the Center is to conduct community-based participatory research and community health programming with the goal of eliminating health disparities.
Co-investigator

PRESENTATIONS

Invited Presentations

"Teaching Likelihood Methods in Statistics," August 20, 2003, Berlin, Germany

ADDITIONAL INFORMATION

Foundations of statistical inference: profile likelihood, indirect likelihood, objective Bayes connections

Keywords: foundations of statistical inference, likelihood applications