

ROBERT H. PEARSON

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Education

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| 2008 | Ph.D., Department of Applied Statistics & Research Methods, University of Northern Colorado, Greeley, Colorado <ul style="list-style-type: none">• Dissertation: "Recommended Sample Size for Conducting Exploratory Factor Analysis on Dichotomous Data;" Advisor: Dan Mundfrom, Ph.D. |
| 2003 | M.S., Department of Applied Statistics & Research Methods, University of Northern Colorado |
| 2000 | B.S., Department of Mathematics & Statistics, University of Minnesota-Duluth, Duluth, Minnesota <ul style="list-style-type: none">• Major: Mathematics (Statistics Emphasis)• Minor: Computer Science |

Research Interests

- Methodological issues in factor analysis and structural equation modeling
- Multivariate statistical methods
- Statistical computing and simulation
- Application of statistical methodology

Teaching Experience

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| 2008 – Present | Assistant Professor, University of Northern Colorado |
| 2002 - 2007 | Course Instructor, University of Northern Colorado <ul style="list-style-type: none">• Independently taught undergraduate courses in statistics and mathematics.<ul style="list-style-type: none">- STAT 150 - Introduction to Statistics (Multiple Semesters)- MATH 023 - Intermediate Algebra (Fall 2004)- MATH 182 - Fundamentals of Mathematics II (Fall 2003) |
| Summer 2007 | Instructor, Aims Community College, Greeley, CO <ul style="list-style-type: none">• MAT 135 - Introduction to Statistical Analysis |
| 2001 - 2002 | English Teacher, Direct English, Seoul, South Korea <ul style="list-style-type: none">• Taught English in one-on-one and group settings, primarily to adult professionals. |

Research Experience

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| 2007 - present | Research Assistant, University of Northern Colorado <ul style="list-style-type: none">• Review and critique published articles related to adolescent sexual risk behavior. |
| 2005 - 2007 | Research Assistant, National Center on Low-Incidence Disabilities, University of Northern Colorado <ul style="list-style-type: none">• Managed data, conducted analyses, and created reports for research in special education. |

Consultation Experience

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| 2002 - present | <p>Research Consultant, Department of Applied Statistics & Research Methods, University of Northern Colorado</p> <ul style="list-style-type: none"> • Assist with research planning, data management and analysis, and write-up. • Consult on numerous doctoral dissertations. • Answer questions about SAS, SPSS, LISREL, and other software. |
| 2006 | <p>David Falvo, Professor of Educational Technology, University of Northern Colorado</p> <ul style="list-style-type: none"> • Discussed and interpreted ANCOVA design to determine if interactive instruction modules are effective for teaching molecular chemistry. |
| 2005 | <p>Joe Doty, doctoral student in Sport & Exercise Science, University of Northern Colorado</p> <ul style="list-style-type: none"> • Discussed using CFA to investigate the factor structure of an instrument to measure character in sport. |
| 2005 | <p>Karen Fowler, Professor of Management, University of Northern Colorado</p> <ul style="list-style-type: none"> • Discussed and analyzed psychometric properties of a questionnaire designed to measure organizational readiness for crisis or disaster. |
| 2005 | <p>Robin Brewer, Professor of Special Education, University of Northern Colorado</p> <ul style="list-style-type: none"> • Analyzed survey data on teacher candidate mentoring. |
| 2004 | <p>Larimer County Department of Health & Environment, Fort Collins, CO</p> <ul style="list-style-type: none"> • Analyzed survey data from the Pregnancy Risk Assessment Monitoring System (PRAMS) using categorical methods and sample weighting. |

Other Professional Experience

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| 1999 - 2000 | <p>Software Engineer, Murphy McGinnis Interactive, Duluth, MN</p> <ul style="list-style-type: none"> • Designed and implemented database and software to manage mass media web sites. |
| 1998 - 1999 | <p>Programmer, Information Technology Systems & Services, University of Minnesota-Duluth</p> <ul style="list-style-type: none"> • Projects included comprehensive help desk logging, modifications to the 911 database, class email alias management software. |
| 1996 - 1999 | <p>Computer Lab Consultant, Information Technology Systems & Services, University of Minnesota-Duluth</p> <ul style="list-style-type: none"> • Assisted students with software and hardware issues. |
| 1997 - 1998 | <p>Help Desk Staff, Information Technology Systems & Services, University of Minnesota-Duluth</p> <ul style="list-style-type: none"> • Solved or redirected technical support problems. |

Technical Skills

- Statistics: Multivariate methods (MLR, MANOVA, DA, etc.), non-parametric methods, categorical analysis, exploratory and confirmatory factor analysis.
- Research Methodology: Survey research, structural equation modeling, measurement issues; some experience with longitudinal analysis.
- Computing platforms: UNIX, Windows, Macintosh.
- Programming languages: Perl, PHP, HTML, some C and Java.

- Statistical software: Extensive experience with SAS, SPSS, and LISREL; some experience with SUDAAN, HLM, and R/S-PLUS.
- Additional software: MySQL, Excel, Word, PowerPoint, Photoshop.

Presentations

- Pearson, R. H. (2008). *Recommended Sample Size For Conducting Exploratory Factor Analysis on Dichotomous Data*. Paper presented at the Joint Statistical Meetings, Denver, CO.
- Hutchinson, S. R., & **Pearson, R. H.** (2006). *Multiple Groups Confirmatory Factor Analysis under Conditions of Nonnormality*. Paper discussion presented at the annual meeting of the American Educational Research Association, San Francisco, California.
- Pearson, R. H.** (2006). *Sample Size of Two? Consider Single-Subject Time-Series Designs*. Poster session presented at the Research Summit on Low-Incidence Disabilities, Vail, Colorado.
- Sebald, A. M., & **Pearson, R. H.** (2006). *Caseload Study: Preliminary Results*. Paper presented at the annual meeting of the Colorado Consortium of Special Education Teacher Educators Conference, Breckenridge, Colorado.
- Pearson, R. H.** (2004). *2002 Larimer County PRAMS*. Paper presented at the annual Public Health in the Rocky Mountains conference, Breckenridge, Colorado.

University Service

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| 2006 | Faculty Search Committee Member - Department of Applied Statistics & Research Methods, University of Northern Colorado |
| 2004 | GRE Quantitative Instructor - Ronald E. McNair Postbaccalaureate Achievement Program, University of Northern Colorado <ul style="list-style-type: none">• Program is designed to prepare participants from disadvantaged backgrounds for doctoral studies. |

Professional Memberships

American Statistical Association, American Educational Research Association