

CURRICULUM VITAE

- Name:** Ryan Andrew Black, Ph.D.
- Born:** 05/21/1978, Toronto, Canada (U.S. citizen)
- Education:** 06/2006 Ph.D. Clinical Psychology, Nova Southeastern University
08/2002 M.S. Clinical Psychology, Nova Southeastern University
06/2000 B.A. Psychology, Florida International University
- Career:** 2012-Present Assistant Professor, College of Psychology, Nova Southeastern University, Fort Lauderdale, FL
2012-Present Statistical Consultant, Inflexxion, Inc., Newton, MA
2009-2012 Director of Biostatistics & Methodology, **Inflexxion, Inc.**, Newton, MA
2008-2009 Biostatistician, **Inflexxion, Inc.**, Newton, MA
2008-2013 Clinical Instructor in Psychology, **Harvard Medical School/BIDMC**-Massachusetts Mental Health Center, Boston, MA
2007-2012 Adjunct Faculty, Psychology, **Quinnipiac University**, Hamden, CT
2007-08 Associate Research Scientist, Psychology, **Yale School of Medicine** – West Haven VA, West Haven, CT
2006-07 Postdoctoral Fellow, Psychology, **Yale School of Medicine** – Connecticut Mental Health Center/Community Services Network, New Haven, CT
2005-06 Intern, Psychology, **Harvard Medical School/BIDMC** – Massachusetts Mental Health Center, Boston, MA
2003-05 Volunteer, Psychology, **University of Miami** – Jackson Memorial Hospital, Miami, FL
2002-03 Extern, Psychology, **University of Miami** – Jackson Memorial Hospital, Miami, FL
2001-02 Extern, Psychology, **Nova Southeastern University (NSU)** – NSU’s Community Mental Health Center, Fort Lauderdale, FL
- Lectures, Courses:** 2012-Present Primary Instructor
Courses Include:
- Theories of Measurement (PsyD Course)
College of Psychology, Nova Southeastern University
This course examines the theories, techniques, and statistics of psychological measurement. Topics covered include a history and overview of measurement theory, scaling, individual differences and correlation, dimensionality, reliability and classical test theory, standard error of measurement, validity, test construction and refinement, and modern test theories.
- Theories of Measurement (PhD Course)
College of Psychology, Nova Southeastern University
This course examines the theories, techniques, and statistics of psychological measurement. Topics covered include classical test theory, methods of reliability and validity assessment, test and item analysis, scaling procedures, test construction, item response

theory, and generalizability theory. Both conceptual understanding and practical application are covered.

Intermediate Statistics (PsyD Course)

College of Psychology, Nova Southeastern University

This course covers basic descriptive and inferential statistics to proficiency. Multivariate statistics are taught from a consumer perspective. Course content is shaped by statistical techniques commonly used in the context of research in clinical psychology.

Issues & Techniques in Research Design and Evaluation (PsyD Course)

College of Psychology, Nova Southeastern University

Competencies required for the design, implementation, and evaluation of educational research, including: problem formulation and analysis, sample selection, instrument selection, formulation of research design and procedure, and data analysis. Emphasis will be placed upon the evaluation of research, translation of research into practice, and the ability to plan and conduct program evaluations for the improvement of services within the schools.

Issues & Techniques in Research Design and Evaluation (PsyS Course)

College of Psychology, Nova Southeastern University

Competencies required for the design, implementation, and evaluation of educational research, including: problem formulation and analysis, sample selection, instrument selection, formulation of research design and procedure, and data analysis. Emphasis will be placed upon the evaluation of research, translation of research into practice, and the ability to plan and conduct program evaluations for the improvement of services within the schools.

2012

Research Design (PhD Course)

Research design in clinical provides an in-depth introduction to many topics that comprise state-of-the-art research practices in clinical and related fields. These topics include, but are not limited to: a) philosophical foundations of science; b) an extensive sampling of designs used to assess the efficacy of interventions and the developmental course of phenomena (e.g., psychopathology); c) contemporary measurement theory; and d) contemporary statistical practices.

Research and Evaluation for Counselors (Masters Course)
Center for Psychological Studies, Nova Southeastern University
This course seeks to prepare mental health and school counselors to be informed consumers of research and evaluation. It covers basic statistics, research designs, and program evaluation within the counseling and educational fields. It provides experience in developing accountability measures and in reading research and evaluating reports applicable to multicultural populations.

2007-12

Primary Instructor

Introduction to Statistics in Psychology (Undergraduate Course)
Quinnipiac University

This course focuses on strategies for analyzing data from experimental and quasi-experimental designs. Topics include descriptive statistics, general linear models and equivalent nonparametric designs. Planned and post-hoc comparisons are addressed throughout. The course also includes step-by-step training on using SPSS to perform analyses.

03/2006

Workshop Lecturer

“Structural Equation Modeling: An Overview” Workshop
Program For Recovery And Community Health (PRCH)
Yale School of Medicine

Provided an overview on the theory and applications of structural equation modeling.

03/2004

Co-Lecturer

Cognitive Therapy: A Significant Breakthrough in the Treatment of Psychosis Workshop

South Florida State Hospital, Fort Lauderdale, Florida

Supervisor: Stacey Lambert, Psy.D.

Co-facilitated a training workshop for professionals in the application of cognitive behavioral skills for psychosis for severe and persistent mental illness. Target audience consisted of psychology interns and psychologists.

Professional Certifications and Proficiencies:

10/08

Mixed Models Analyses Using the SAS System

This course taught how to analyze linear mixed models using PROC MIXED. A brief introduction to analyzing generalized linear mixed models using PROC GLIMMIX was also included.

03/07

Completion of Winsteps Training Certificate

Hands-on Introduction to Item Response Theory(IRT)/Rasch Measurement Using Winsteps

Instructors: Ken Conrad, Ph.D. and Barth Riley, Ph.D.

07/06

REBT/CBT Advanced Practicum Certificate

Albert Ellis Institute

New York City, NY

Supervisors: Ray DiGiuseppe, Ph.D., Kristene Doyle, Ph.D., Windy Dryden, Ph.D.

07/06 **Cardiopulmonary Resuscitation (CPR)**

03/06 **Clinical Hypnosis: Basic Training Certificate**

New England Society of Clinical Hypnosis
Boston, Massachusetts

Supervisors: Max Shapiro, Ph.D., Elvira Lang, M.D., Edward Geschelin, D.M.D.

01/06 **REBT/CBT Primary Practicum Certificate**

Primary Practicum
Albert Ellis Institute
New York City, NY

Supervisors: Ray DiGiuseppe, Ph.D. and Kristene Doyle, Ph.D.

07/04 **Physical Assessment**

Proficiencies in Statistical Software: SPSS
AMOS
SAS
MPLUS
Medcalc
WinBugs/OpenBugs
Minitab
Winsteps
PARSCALE
Excel
LatentGold

Professional Service: 2012-Present Guest Reviewer for APA Journal “Applied Psychological Measurement”
2005-Present Guest Reviewer for APA Journal “Psychological Services”
2010-Present Guest Reviewer for “Journal of Studies on Alcohol and Drugs”
2014-Present Guest Reviewer for “Journal of Psychoeducational Assessment”
2006-2007 Writer and Co-coordinator for Yale Community Services Network Newsletter

Professional Membership(s): American Psychological Association

Bibliography:

Butler, S. F., Zacharoff, K. L., Charity, S., **Black, R. A.**, Chung, E., Barreveld, A., Clark, M. S., Jamison, R. N. (2016). Impact of an Electronic Pain and Opioid Risk Assessment Program: Are There Improvements in Patient Encounters and Clinic Notes? Pain Medicine. doi: 10.1093/pm/pnw033.

- Trudeau, K. J., Pujol, L., DasMahapatra, P., Wall, R., **Black, R.**, & Zacharoff, K. (2015). A randomized controlled trial of an online self-management program for people with arthritis pain. *Journal of Behavioral Medicine*, 38(3):483-96.
- Butler, S.F., McNaughton, E.C., & **Black, R.A.** (2015) Tapentadol abuse potential: A post-marketing evaluation using a sample of individuals evaluated for substance abuse treatment. *Pain Medicine*,16, 119-130. doi: 10.1111/pme.12524.
- McNaughton, E.C., **Black, R.A.**, Weber, S.E. & Butler, S.F. (2015). Assessing abuse potential of new analgesic medications following market release: An evaluation of Internet discussion of tapentadol abuse. *Pain Medicine*,16, 131-140. doi: 10.1111/pme.12547.
- Black, R.A.**, Yang, Y., Beitra, D., McCaffrey S. (2014) Comparing Fit and Reliability Estimates of a Psychological Instrument using Second-Order CFA, Bifactor, and Essentially Tau-Equivalent (Coefficient Alpha) Models via AMOS 22. *Journal of Psychoeducational Assessment*. doi: 10.1177/0734282914553551.
- Cassidy, T.A., DasMahapatra, P., **Black, R.A.**, Matthew S., Wieman, M.S., & Butler, S.F. (2014). Changes in prevalence of prescription opioid abuse after introduction of an abuse-deterrent opioid formulation. *Pain Medicine*, 15(3): 440-51.
- Black, R.A.**, Trudeau, K.J., Cassidy, T.A., Budman, S.H., & Butler, S.F. (2013). Associations between public health indicators and injecting prescription opioids by prescription opioid abusers in substance abuse treatment. *Journal of Opioid Management*, 9(1), 5-17.
- Chiauszi E., DasMahapatra P., **Black R.A.** (2013) Risk Behaviors and Drug Use: A Latent Class Analysis of Heavy Episodic Drinking in First-Year College Students. *Psychology of Addictive Behaviors*, 27(4):974-85. doi: 10.1037/a0031570.
- Butler, S.F., **Black, R.A.**, Techner, L., Fernandez, K.C., Brooks, D., Wood, M., Katz, N. (2012). Development and validation of the post-operative recovery index for measuring quality of recovery after surgery. *Journal of Anesthesia & Clinical Research*. Res 3:267. doi: 10.4172/2155-6148.100026.
- Butler, S.F., Cassidy, T.A., Chilcoat, H., **Black, R.A.**, Landau, C., Budman, S.H., Coplan, P. (2013). Abuse rates and routes of administration of reformulated extended release oxycodone: Initial findings from a sentinel surveillance sample of individuals assessed for substance abuse treatment. *Journal of Pain*, 14(4), 351-358.
- McNaughton, E.C., **Black, R.A.**, Zulueta, M.G, Budman, S.H. & Butler, S.F. (2012). Measuring online endorsement of prescription opioids

abuse: an integrative methodology. *Pharmacoepidemiology and Drug Safety*. Published online in Wiley Online Library (wileyonlinelibrary.com) DOI: 10.1002/pds.3307

Black R.A. & Butler S.F. (2012). Using the GLIMMIX Procedure in SAS 9.3 to Fit a Standard Dichotomous Rasch and Hierarchical 1-PL IRT Model. *Applied Psychological Measurement*, 36(3), 237-248.

Donovan, E., Wood, M., Frayjo, K., **Black, R.A.**, Surette, D. A. (2012). A randomized, controlled trial to test the efficacy of an online, parent-based intervention for reducing the risks associated with college-student alcohol use. *Addictive Behaviors*, 37(1), 25-35.

Butler S.F., **Black R.A.**, Cassidy T.A., Dailey T.M., & Budman S.H. (2011). Abuse risks and routes of administration of different prescription opioid compounds and formulations. *Harm Reduction Journal*, 8:29.

Green T., **Black R.**, Grimes Serrano J.M., Budman S.H., & Butler S.F. (2011). Typologies of prescription opioid use in a large sample of adults assessed for substance abuse treatment. *PLoS One*, 6(11): e27244. doi:10.1371/journal.pone.0027244.

Chiauzzi E., **Black R.A.**, Frayjo K., Reznikova M., Serrano J.M., Zacharoff K., & Wood M. (2011). Health Care Provider Perceptions of Pain Treatment in Hispanic Patients. *Pain Practice*, 11(3): 267-277.

Lord S.E., Trudeau K.J., **Black R.A.**, Lorin L., Cooney E., Villapiano A., & Butler S.F. (2011). CHAT: Development and validation of a computer-delivered, self-report, substance use assessment for adolescents. *Substance Use and Misuse*, 46(6): 781-794.

Chiauzzi E., Pujol L.A., Wood M., Bond K., **Black R.**, Yiu E., & Zacharoff K. (2010). painACTION-Back Pain: A Self-Management Website for People with Chronic Back Pain. *Pain Medicine*, 11(7): 1044-1058.

Butler S.F., **Black R.**, Grimes Serrano J.M., Wood M.E., & Budman S.H. (2010). Characteristics of prescription opioid abusers in treatment: Opioid use history, age, use patterns, and functional severity. *Journal of Opioid Management*, 6(4): 230-252.

Roberts D.L., Penn D.L., Corrigan P., Lipkovich I., Kinon B., **Black R.A.** (2010). Antipsychotic medication and social cue recognition in chronic schizophrenia. *Psychiatry Research*, 178(1): 46-50.

Butler S.F., **Black R.**, Grimes Serrano J.M., Folensbee L., Chang A., & Katz N. (2009). Estimating Attractiveness for Abuse of a Not-Yet-Marketed "Abuse Deterrent" Prescription Opioid Formulation. *Pain Medicine*, 11(1): 81-91.

Butler S.F., Fernandez K.C., Chang A., Benoit C., Morey L.C., **Black R.**, & Katz N. (2009). Measuring Attractiveness for Abuse of Prescription Opioids. Pain Medicine, 11(1): 67-80.

Black R.A., Serowik K.L., & Rosen M.I. (2009). Associations between Impulsivity and High Risk Sexual Behaviors in Dually Diagnosed Outpatients. American Journal of Drug and Alcohol Abuse, 35(5): 325-328.

Sells D.J., **Black, R.A.**, Davidson, L., & Rowe, M. (2008). Beyond generic support: The incidence and impact of invalidation within peer-based and traditional treatment for clients with severe mental illness. Psychiatric Services, 59(11): 1322-1327.

Black R.A., Rounsaville, B.J., Rosenheck R.A., Conrad K.J., Ball S.A., & Rosen M.I. (2008). Measuring Money Mismanagement Among Dually Diagnosed Clients. Journal of Nervous and Mental Disease, 196(7): 576-579.

Goodwin, E.A., **Black, R.A.**, Sweeney, P.J., Dorfman, W.I., & Levant, R.F. (2003). Students' attitudes toward working with individuals who suffer from serious and persistent mental illness. Greensboro, NC: University of North Carolina. (ERIC Document Reproduction Service No. CG032558).

Research Support:

1R43DA031489-01

PI: Butler

09/30/2013 -- Present

A Clinical Decision Support Tool for Electronic Health Records

The primary objective of this project is to continue the development of a clinical decision support system that is integrated with an electronic health record for substance abuse treatment providers.

Role: Co-I

2R44DA023322-02A2

PI: Butler

04/1/2007 -- Present

A Computerized Adaptive Testing Version of the ASI-MV

The goal of this project is to continue the development and test the reliability and validity of a computer adaptive testing (CAT) version of the addiction severity index - multimedia version (ASI-MV).

Role: Co-I

Completed Federally Funded Research Support

2R44DA023322-02A2

PI: Butler

Completed: 02/04/2013

A Computerized Adaptive Testing Version of the ASI-MV

The goal of this project is to develop and test the reliability and validity of a computer adaptive testing (CAT) version of the addiction severity index - multimedia version (ASI-MV).

Role: Co-I

5R44DA026359-03

PI: Butler

Completed: 02/28/2013

Pain Assessment Interview and Clinical Advisory System

This application builds on programmatic research at Inflexxion to develop the PAIN Clinical Advisory System.

Role: Biostatistician

5R44DA027190-03

PI: Donovan

Completed: 05/31/2013

MyStudentBody-Community College: A Health Website for Students

The objectives of the proposed research are to create the first comprehensive wellness and alcohol and other drug (AOD) intervention prevention program specifically for community college students.

Role: Biostatistician

2R44DA026645-02A1

PI: Trudeau

Completed: 04/30/2013

Staying Off Substances: A Tailored Early Recovery Program for Teens

The goal is to develop an online relapse prevention program for adolescents called Staying Off Substances (SOS). Specific content in the program will be recommended to counselors based on their client's reported needs and strengths on the Comprehensive Health Assessment for Teens (CHAT®), a Web-enabled interactive adolescent self-report assessment for use in treatment settings.

Role: Biostatistician

1R43DA026669-03

PI: Chiauzzi

Completed – 3/31/13

MAP-PC: An Addiction Medicine Training Course for Primary Care Pain Treatment

This Phase II proposes the development and testing of an online CME program for primary care physicians called Managing Addiction and Pain in Primary Care (MAP-PC).

Role: Biostatistician

5R44AR061191-03

PI: Trudeau

Completed: 9/30/12

Web-based Support to Manage Arthritis Pain

The objective is to develop an interactive, online pain self-management program for adults who suffer from pain associated with osteoarthritis, rheumatoid arthritis, Ankylosing spondylitis, and other arthritic conditions.

Role: Biostatistician

2R44DA026232-03

PI: Chiauzzi

Completed: 7/31/12

ASI-MV Solutions: A Tailored Program for Substance Abusers in Early Recovery

Development of ASI-MV Solutions will be an online skill-building and motivational intervention for substance abusers in early recovery. By linking learning modules to client results on the ASI-MV, an online interactive version of the ASI administered in treatment settings, we will be able to offer clients important tools to address the early psychosocial and medical challenges of recovery.

Role: Biostatistician

1R43DA031489-01

PI: Chiauzzi

Completed: 02/29/12

1R43DA028001-01

PI: Chiauzzi

Completed: 11/30/11

ASI-MV Counselor Solutions: An Online Program for Evidence Based Treatment

Development of ASI-MV Counselor Solutions provided tailored, real time treatment recommendations and skill-building lessons to substance abuse counselors.

Role: Biostatistician

R43CA108066-01

PI: Bromberg

Completed: 08/31/10

Workplace Wellness for the Web: Nutrition

Completed a feasibility study for developing a tailored Web-based nutrition and dietary management intervention to help users reduce fat intake, increase fruit and vegetable intake, and increase physical activity.

Role: Biostatistician

9R44DA022779

PI: Butler

Completed: 07/31/08

Improving Pain Management in Cancer Care in Latinos

The main goal of this Phase II project was to develop an computer-administered assessment of cancer-relevant illness distress for Spanish speaking patients.

Role: Biostatistician

R43DA023520-01

PI: Bromberg

Completed: 12/31/2008

Internet Support for Self-Managing Neuropathic Pain

Completed a feasibility study for developing a tailored Web-based intervention to help people with neuropathic pain improve self-management behaviors, and improve coping with pain-related psychosocial issues.

Role: Biostatistician

3R44DA014139-04[S1]

PI: Trudeau

Completed: 01/01/09

Multimedia Addiction Severity Index for Adolescents

This was a Phase II study to develop and validate an online, interactive, substance abuse assessment for adolescents.

Role: Biostatistician

2R44DA018552-02

PI: Chiauzzi

Completed: 02/28/09

Internet Based Drug Education for College Students

This application proposed the development and testing of an interactive, online drug use prevention program for college students, MyStudentBody-Drugs (MSB-Drugs). It was geared toward primary and secondary prevention, MSB-Drugs the intention was to promote motivation to prevention, initiation of, or reduce, drug use and associated risk behaviors.

Role: Biostatistician

1R43DA024489

PI: Butler

Completed: 12/31/09

Signal Detection for Prescription Opioid Outbreaks

The goal of this project was to develop a surveillance web-based system to track nationwide drug abuse using signal detection theory and provide analyses of temporal and geospatial data derived from the ASI-MV Connect and other relevant data streams to conduct real-time surveillance of addictive prescription drugs.

Role: Biostatistician

5R44DA022802-03

PI: Chiauzzi

Completed: 12/31/09

A Website for the Self-Management of Chronic Back Pain

The aim of this proposal was to develop an interactive website called HealthierBack.com for patients with chronic back pain.

Role: Biostatistician

1R43DA026359

PI: Butler

Completed: 01/30/10

Pain Assessment Interview and Clinical Advisory System

This Phase I project began the development of Pain Assessment Interview Network - Clinical Advisory System (painCAS), a systematic and tested computer-administered assessment of pain patients.

Role: Biostatistician

R44DA023539-02

PI: Bromberg

Completed: 03/31/10

Web-based Support to Self-Manage Migraine Pain

The project involved the development and testing of a tailored Web-based intervention to help people with chronic migraine headache improve self-management behaviors, and improve coping with pain-related psychosocial adjustment issues.

Role: Biostatistician

5R44DA022187-03

PI: Donovan

Completed: 03/31/10

Online Parent-Based College Alcohol and other Drug Use Prevention

The goal of this program was to develop and test an online parent-based substance use prevention education resource for parents of youth preparing to make the transition to college, MyStudentBody(MSB)-Parent.

Role: Biostatistician

Completed Non-Federally Funded Projects

Janssen Scientific Affairs, LLC

PI: Black

Completed: 02/16/11

Examining Associations between Injecting Opioids and Health Outcomes in a Substance Abuse Treatment Population: A Retrospective Analysis of the ASI-MV® Connect

The goal of this project is to examine associations between opioid injection and relevant health outcomes in a population of substance abusers aged 18 years and older attending substance abuse treatment across the United States who completed the ASI-MV® Connect as part of their treatment experience.

Role: PI

King Pharmaceuticals

PI: Butler

Completed: 05/01/09

Enhancement of the Opioid Attractiveness Scale

This project endeavored to develop and test an assessment method for determining the relative attractiveness for abuse of particular prescription opioid products and to extend this method to estimating attractiveness for abuse of a not-yet-marketed abuse deterrent opioid analgesic formulation.

Role: Biostatistician

Presentations: Provided oral and poster presentations multiple times at various conferences over the past several years, including:

American Psychological Association
College on Problems of Drug Dependence
International Conference on Outcomes Measurement
American Academy of Pain Medicine
American Pain Society
Society of Behavioral Medicine

Presentation details available upon request.

References: Available upon request.