

CURRICULUM VITAE

Nicole Prause

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POSITION

2007-present Assistant professor
Idaho State University

EDUCATION

Intern	2007	Boston Consortium in Clinical Psychology Rotation (Major): Medical Rehabilitation Rotation (Minor): Neuropsychology
Clinical fellow	2007	Harvard Medical School, Department of Psychiatry
Teaching fellow	2007	Boston University, Department of Psychology
PhD	2007	Indiana University, Bloomington Dept Psychological and Brain Sciences Clinical Science program Concentrations: Statistics, Neuroscience Dissertation: <i>The role of attention and emotion in variations of sexual desire</i> Committee Chair: William P. Hetrick, PhD Committee member: David H. Barlow, PhD Committee member: Julia Heiman, PhD
BA	2000	Indiana University, Bloomington

TRAINING

May 22, 2009 Mixed Models for Longitudinal Data Analysis presented by Don Hedeker, PhD. *Focus:* Understand the benefits of mixed modeling and options for modeling longitudinal data and

compare models with random effects models with varying parameter estimates.

April 20-22, 2009 7th EEGLab workshop presented by Mark Makeig, PhD, Julie Onton, PhD, and Arnaud Delorme, PhD. *Focus*: ICA analysis for signal cleaning and blind source localization using EEGLab Matlab Toolbox.

RESEARCH EXPERIENCE

- 2005-2007 **Predoctoral Research Fellow**
Sexual Studies Laboratory
Supervisor: Julia Heiman, Ph.D.
- 2004-2007 **Predoctoral Research Fellow**
Psychopathology and Neuropsychometry Laboratory
Supervisor: William Hetrick, Ph.D.
Julia Heiman, Ph.D.
- 2002-2004 **Predoctoral Research Fellow**
The Kinsey Institute for Research Psychophysiological Laboratory
Supervisor: William Hetrick, Ph.D.
Erick Janssen, Ph.D.
- 2000-2002 **Graduate Research Assistant**
Biobehavioral Alcohol Research Laboratory
Supervisor: Peter Finn, Ph.D.

CONSULTANTSHIPS

Research psychologist consulted for pharmaceutical trial design and analysis for Eli Lilly, Indianapolis, IN, November 2001-June 2002.

Psychophysiology analyst for Discovery Channel Canada, Bloomington, IN, July 2004.

HONORS

- 2007 Society for Sex Therapy and Research, Student Research Award
2006 Elected affiliate member, International Academy of Sex Research
2001 Kinsey Institute Summer Training Program acceptance
2000 BA, Summa cum laude
2000 Departmental honors, Department of Psychology
2000 Senior Achievement Award, Department of Psychology
2000 Senior Achievement Award, Department of Sociology
2000 Excellence in Research Award, Department of Psychology
2000 Psi Chi Award for Outstanding Service

TEACHING EXPERIENCE

- 2009S Instructor
Idaho State University, Pocatello
Course title: Clinical practicum: Behavioral medicine
Recipients: Doctoral psychology students
- 2009F Instructor
Idaho State University, Pocatello
Course title: Psychophysiology
Recipients: Doctoral psychology students and advanced undergraduates
- 2008S-present Instructor
Idaho State University, Pocatello
Course title: Laboratory experience
Recipients: Advanced undergraduates
- 2008S-2009S Instructor
Idaho State University, Pocatello
Course title: Statistics
Recipients: Advanced undergraduates
- 2007F-2009S Supervisor
Psychology Clinic, Idaho State University, Pocatello
Course title: Clinical practicum: Sexual dysfunction and couples therapy
Recipients: Doctoral psychology students
- 2008 Invited lecture
Nursing program, Idaho State University
Course title: Introduction to nursing
Lecture title: Older adult sexuality
Recipients: Nursing students
- 2007F Instructor
Idaho State University, Pocatello
Course title: Psychology of Women
Recipients: Advanced undergraduates
- 2007F Instructor
Idaho State University, Pocatello
Course title: Introduction to Psychology
Recipients: Undergraduates
- 2007 Invited lecture
Veterans Affairs Medical Center, West Roxbury, MA
Course title: Tufts' Didactics Series

Lecture title: Sexual functioning and disability
Recipients: Medical residents

- 2007 Invited lecture
Veterans Affairs Medical Center, West Roxbury, MA
Course title: Grand Rounds
Lecture title: Psychologic treatment of sexual dysfunction and spinal cord injury
Recipients: Multi-disciplinary (Physician, residents, psychologists, social work)
- 2006 Invited lecture
Veterans Affairs Medical Center, Jamaica Plain, MA
Course title: Boston Consortium Didactic Series
Lecture title: Grants for psychologists: Federal and private
Recipients: Psychology interns
- 2001-2006 Instructor
The Kinsey Institute for Research in Sex, Gender, and Reproduction
Course title: Readings and Research in Psychology
Recipients: Advanced undergraduates
- 2005 Invited lecture
Indiana University, Bloomington
Course title: Marital and family violence
Lecture title: Sexual dysfunction in couples
Recipients: Advanced undergraduates
- 2004 Instructor
Indiana University, Bloomington
Course title: Research Methods
Recipients: Undergraduates
- 2003 Instructor
Indiana University Continuing Studies, Bloomington
Course title: Personality Psychology
Recipients: Undergraduates
- 1998 Section Instructor
Indiana University, Bloomington
Course title: Introduction to Human Sexuality
Recipients: Undergraduates
- 1998 Undergraduate Teaching Assistant
Indiana University, Bloomington
Course title: Constructing Human Sexuality
Recipients: Undergraduates

EDITORIAL EXPERIENCE

Ad hoc reviewer for *Archives of Sexual Behavior*
Ad hoc reviewer for *Psychophysiology*
Ad hoc reviewer for *Sexuality and Disability*
Ad hoc reviewer for *Biological Psychology*
Ad hoc reviewer for *Signs*

MEMBERSHIP

International Academy of Sex Research, Elected affiliate member
Association for Psychological Science
Society for Psychophysiological Research
Association for Behavioral and Cognitive Therapies
Society for the Scientific Study of Sexuality

GRANT AND FELLOWSHIP SUPPORT (CURRENT)

- “Effects of alcohol on behavioral activation tendencies during states of reproductive relevance”.
Principal investigator, supported by the Alcoholic Beverage Medical Research
Foundation, *Direct costs*: \$98,791.
- “Reproductive mediators of alcohol’s effect on health risk behaviors”. Principal investigator,
competitive internal application for Humanities/Social Sciences Research Committee,
Direct costs: \$15,083.
- “Neurophysiological indices of motivation variability”. Principal investigator, *competitive
internal application* for Women Empowered to Learn, Educate, Advance, and Develop
supported by the National Science Foundation *Direct costs*: \$14,786.

GRANT AND FELLOWSHIP SUPPORT (COMPLETED)

- “Precollege program”. *Co-supervisor* with Ken Bosworth to Kameryn Williams for National
Science Foundation EPSCoR grant # EPS-0447689 *Direct costs*: \$1,200.
- “Summer research fellowship”. *Faculty supervisor* to Adam Emfield supported by the
American Psychological Association.
- “John Curtin collaborator visit support”. *Faculty beneficiary* for Women Empowered to Learn,
Educate, Advance, and Develop supported by the National Science Foundation *Direct
costs*: \$1,000.
- “Neurophysiological processing models of reproductive decision making”. *Principal
investigator* for Faculty Research Committee of Idaho State University *Direct costs*:
\$4,567.

“The role of emotion, attention, and couple differences in sexual desire”. *Principal investigator* for Social Science Research Council fellowship supported by the Ford Foundation
Direct costs: \$28,000.

“Research Training in Clinical Science”. *Clinical science trainee* for an NIMH T-32 intramurally-competitive award. *Direct costs (program, year)*: \$174,000.

“Identity, Self, Role, and Mental Health”. *Fellow* for an NIMH T-32 intramurally-competitive award. *Direct cost (2 years, individual fellow)*: \$52,824.

“Information processing models of sexual desire modulation”. *Principal investigator* for President’s Summer Undergraduate Research Initiative awarded through Indiana University *Direct costs*: \$4,934.

“Information processing models of sexual desire modulation”. *Principal investigator* for The Kinsey Institute Student Grant-in-Aid. *Direct costs*: \$500.

“The role of acute ethanol consumption on sexual arousal and sexual risk taking”. *Principal investigator* for The Kinsey Institute Student Grant-in-Aid. *Direct costs*: \$500.

“The role of acute ethanol consumption on sexual arousal and sexual risk taking”. *Principal investigator* for the Indiana University Women in Science Program Travel Grant to present at the International Academy of Sex Research, *Direct costs*: \$800.

“The role of acute ethanol consumption on sexual arousal and sexual risk taking”. *Principal investigator* for the Society for the Scientific Study of Sexuality Student Research Grant, *Direct costs*: \$1000.

“Asexual identity”. *Principal investigator* for the Safer Sexuality Outreach Program of Bloomington Indiana Research Grant, *Direct costs*: \$500.

“Creating ecologically-valid, computerized emotional expression stimuli”. *Research trainee* for the Indiana University President’s Summer Undergraduate Research Initiative, *Direct costs*: \$500.

PUBLICATIONS

PEER REVIEWED

Prause, N., Williams, K. & Bosworth, K. (2009). Automated wavelet-based denoising of vaginal pulse amplitude, *Psychophysiology*, manuscript in press.

Prause, N. & Heiman, J. (2009). Assessing female sexual arousal with the labial thermistor: Response specificity and construct validity, *International Journal of Psychophysiology*, manuscript in press.

- Rafiee, J., Schoen, M. P., Prause, N., & Tse, P. W. (2009). A Comparison of EMG and EEG Signals using Time-Frequency Analysis. *Proceedings of the second IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics*, manuscript in press.
- Prause, N., Janssen, E., & Hetrick W. P. (2008). Attention and emotional responses to sexual stimuli and their relationship to sexual desire, *Archives of Sexual Behavior*, manuscript in press.
- Prause, N. & Graham, C. (2006). Asexuality: Predictors and description. *Archives of Sexual Behavior*, 36(3), 341-356.
- Prause, N., Cerny, J., & Janssen, E. (2005). Labial Plethysmograph: A new measure of female genital arousal. *Journal of Sexual Medicine*, 2(1), 58-65.
- Ames, K., Prause, N., Stout, K., & Hetrick, W. P. (2003). Differential effects of affective modulation on orbicularis and post-auricular indices of startle. *Psychophysiology*, 40 (Supp 1), S22.
- Prause, N., Janssen, E., & Hetrick, W. P. (2003). The role of attention and affective response to sexual cues in the experience of sexual desire and sexual arousal. *Psychophysiology*, 40 (Supp 1), S69.
- Spencer-Smith, J., Wild, H., Innes-Ker, Å., Townsend, J. T., Duffy, C., Edwards, C., Ervin, K., Prause, N., & Paik, J. W. (2000). Making faces: Creating 3-dimensional, ecologically-motivated poseable expressions. *Behavior Research Methods, Instruments and Computers*, 33, 115-123.
- NOT PEER REVIEWED*
- Prause, N., & Graham, C. A. (2009). Asexuality: Classification and Characterization. In J. K. D. Sr., N. B. Moore & T. D. Fisher (Eds.), *Speaking of Sexuality: Interdisciplinary Readings* (3rd ed.). Oxford: Oxford University Press.
- Prause, N., & Janssen, E. (2005). Blood flow: Vaginal photoplethysmography. In I. Goldstein, C. M. Meston, S. Davis & A. Traish (Eds.), *Textbook of Female Sexual Dysfunction*. London: Taylor & Francis Medical Books.
- Janssen, E., Geer, J., & Prause, N. (2005). The sexual response system. In J. T. Cacioppo, L. G. Tassinary, & G. G. Berntson (Eds.), *Handbook of Psychophysiology* (3rd edition). New York: Cambridge University Press.
- Prause, Nicole. (2002). BOOK REVIEW: Celibacy, Culture, and Society: The anthropology of sexual abstinence. *Archives of Sexual Behavior*, 31, 84-86.

MANUSCRIPTS

SUBMITTED

Prause, N., Staley, C. & Finn, P. (2009). The role of acute ethanol consumption in sexual arousal and sexual risk taking, manuscript under revision.

Prause, N. & Heiman, J. (2009). Labial temperature decremented in distraction conditions in women with low sexual desire, manuscript under review.

IN PREPARATION

Prause, N., & Hetrick, W. (2009). Affective modulation of the post-auricular muscle response: An appetitive index, manuscript under review.

Prause, N. & O'Farrell, T. J. (2009). Sexual functioning changes over time in alcoholic males in treatment and their female partners, manuscript in preparation.

PRESENTATIONS

PEER REVIEWED

**Denotes supervised student presenter*

Prause N. (July, 2009). *Erectile response deficits at higher alcohol dose characterized by early, low response autocorrelation*, Research Society on Alcoholism Annual Meeting. San Diego, CA.

Rafiee J, Rafiee MA, Prause N, Schoen MP. (April, 2009). *Biorobotics: Optimized Biosignal Classification using Mother Wavelet Matrix* Proceeding of IEEE 35 Annual Northeast Bioengineering Conference, Harvard-MIT Division of Health Sciences & Technology, Cambridge, MA.

Rafiee J, Rafiee MA, Prause N. (April, 2009). *Biosignals: PsychoPhysio-Signal Processing Concept*, Proceedings of IEEE 35 Annual Northeast Bioengineering Conference. Harvard-MIT Division of Health Sciences & Technology, Cambridge, MA.

Rafiee, J., Rafiee, J.M., Prause, N. Tse, P.W., (February, 2009). *Application of Daubechies 44 in machine fault diagnostics*, 2nd IEEE International Conference on Computer, Control and Communication, Karachi, Pakistan.

Rafiee, J., Rafiee, J.M., Prause, N. Tse, P.W. (February, 2009). *Automatic frequency extraction using sinusoidal approximation and wavelet transform*, 2nd IEEE International Conference on Computer, Control and Communication, Karachi, Pakistan.

Rafiee, J. Schoen, M.P., Prause, N. Urfer, A. Rafiee, M.A. (February, 2009). *A comparison of forearm EMG and psychophysical EEG signals using statistical signal processing*, 2nd IEEE International Conference on Computer, Control and Communication, Karachi, Pakistan.

- Prause, N. & *Emfield, A. (2009, May). *Stimulus novelty (P300) supports interpretation of EEG asymmetry as motivationally-driven*. Poster accepted for presentation at the Association for Psychological Science, San Francisco, CA.
- Prause, N. (2009, April). *Frontal alpha asymmetry as a motivation index not influenced by stimulus novelty*. Poster accepted for presentation at the Event-related potentials International Congress annual meeting, Bloomington, IN.
- *Roberts, V. & Prause, N. (2009, April). *Examining the relationship between thought content of cognitive distraction, relationship satisfaction and sexual desire*. Poster accepted for presentation at the Society for Sex Therapy and Research annual meeting, Arlington, VA.
- *Hillman, C. B., Hansis-O'Neill, B. L., & Prause, N. (2008, October). *Response regulation to sexual stimuli in those reporting problems with viewing: A P300 study*. Poster presented at the Snake River Association for Neuroscience annual meeting, Pocatello, ID.
- Prause, N., & Hetrick, W. (2008, October). *Higher sexual arousability is related to lower attention to sex stimuli*. Symposium presentation at the Society for Psychophysiological Research annual meeting, Austin, TX.
- *Hansis-O'Neill, B., & Prause, N. (2008, October). *Predicted erectile response compared to actual erectile response in intoxicated males*. Poster presented at the Society for Psychophysiological Research Annual Meeting, Austin, TX.
- Prause, N., Hillman, C., & Emfield, A. (2008, July). *Asymmetric encephalographic band activity characterizes sexual motivation subverting self-report requirements*. Poster presented at the Annual meeting of the International Academy of Sex Research, Leuven, Belgium.
- Prause, N., & O'Farrell, T. J. (2008, July). *Feelings about sexual satisfaction and sexual functioning over time in male alcoholics engaged in couples' alcoholism treatment*. Poster presented at the Research Society on Alcoholism, Washington DC.
- Rafiee, J., Tse, P. W., Schoen, M. P., Prause, N., & Tolle, C. (2008). *Pattern Extraction of Vibration Signals using Time Analysis of Time-Frequency Approach*. Paper presented at the Annual Conference of the IEEE Industrial Electronics Society, Orlando, FL.
- Rafiee, J., Tse, P. W., Schoen, M. P., Prause, N., & Tolle, C. (2008). *Daubechies 44: The Best Function for Gearbox Diagnostics*. Paper presented at the Annual meeting of the IEEE Industrial Electronics Society, Orlando, FL.
- Prause, N. (2008, May). *Sexual Arousal Myopia? Evidence for High Motivation, Pleasant Stimuli Varying With Trait Sexual Arousability*. Poster presented at the Association for Psychological Science, Chicago, IL.

- Prause, N., Janssen, E. & Hetrick, William P. (2007, March). Attention modulation to sexual stimuli and their relationship to sexual responsivity. Invited paper for the annual meeting of the Society for Sex Therapy and Research, Atlanta, Georgia.
- Prause, N. & Heiman, J. (2006, July). Response specificity and construct validity of the labial thermistor as compared with the vaginal photoplethysmograph. Poster session presented at the annual meeting of the International Academy of Sex Research, Amsterdam, Netherlands.
- Prause, N., Janssen, E., & Hetrick, William P. (2006, July). Attention and emotional responses to sexual stimuli and their relationship to sexual desire. Poster session presented at the annual meeting of the International Academy of Sex Research, Amsterdam, Netherlands.
- *Librach, Giliah R., Harris, Julianna, & Prause, Nicole R. (2006, May). Transfer of orgasm consistency to partner setting moderated by sexual desire. Poster session presented at the annual meeting of the Association for Psychological Science, New York, NY.
- Prause, N. (2005, June). Labial photoplethysmography. Paper for the annual meeting of the World Congress of Sexology, Montreal, Canada.
- Janssen, E., Prause, N., & Hahn, S. (2004, November). Mood, sexual arousal, and sexual risk taking. In Mustanski, B. (Symposium chair), *Mood and Sexuality*. Invited symposium presented at the Society for the Scientific Study of Sexuality, Orlando, Florida.
- Prause, N., Janssen, E., & Hetrick, W. (2004, November). The role of emotion and attention in variations in sexual desire. In Mustanski, B. (Symposium chair), *Mood and Sexuality*. Paper presented at the annual conference of the Society for the Scientific Study of Sexuality, Orlando, Florida.
- Prause, N. & Janssen, E. (2004, June). Four approaches to the processing of vaginal pulse amplitude (VPA) signals. Poster session presented at the annual meeting of the International Academy of Sexuality Research, Helsinki, FI.
- Prause, Nicole & Graham, C. A. (2003, November). Asexuality: A preliminary investigation. Poster session presented at the annual meeting of the Society for the Scientific Study of Sexuality, San Antonio, TX.
- Ames, K., Prause, N., Stout, K., & Hetrick, W. P. (2003, November). Differential effects of affective modulation on orbicularis and post-auricular indices of startle. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Chicago, Illinois.
- Prause, N., Janssen, E., & Hetrick, W. (2003, November). The role of attention and affective response to sexual cues in the experience of sexual desire and sexual arousal. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Chicago, Illinois.

- Prause, N., Janssen, E., & Hetrick, W. (2003, July). The effects of early processing of sexual cues on subsequent sexual functioning: A pilot study. Poster session presented at the annual meeting of the International Academy of Sex Research, Bloomington, Indiana.
- Prause, N., Janssen, E., Cohen, J., & Finn, P. (2002, June). Effects of acute ethanol consumption on sexual arousal and sexual risk taking. Poster session presented at the annual meeting of the International Academy of Sex Research, Hamburg, Germany.
- Prause, N. & Finn, P. (2002, June). No modulation of sexual risk taking and excitement seeking relationship by cognitive capacity. Poster session presented at the annual meeting of the American Psychological Society, New Orleans, LA, United States.
- Cerny, J., Prause, N., & Janssen, E. (2001, October). A new instrument assessing genital hemodynamic changes in women. Poster session presented at the annual meeting of the Female Sexual Functioning Forum, Boston, MA.
- Prause, N., Graham, C. A., & Janssen, E. (2001, June). No concordance between subjective and physiological sexual arousal in women: Different instructions, different correlations. Poster session presented at the annual meeting of the American Psychological Society, Toronto, Ontario, Canada.
- Prause, N., Graham, C. A., & Janssen, E. (2001, June). Effects of different instructions on within- and between-subject correlations of physiological and subjective sexual arousal in women. Poster session presented at the annual meeting of the International Academy of Sex Research, Montreal, Canada.
- NOT PEER REVIEWED*
- Prause, N. (2009, January). EEG and Thee: An introduction to entice you to play with sensors. Invited presentation for the Clinical Psychology series of Idaho State University, Pocatello, Idaho.
- Prause, N. (2008, April). *Electroencephalographic measures of attention to high-motivation, approach cues in humans*. Invited presentation for the Biomedical Research Institute Seminar Series, Pocatello, ID.
- Prause, N. (2007, October). Sensate Focus: The standard of sex therapy? Invited presentation for the Clinical Psychology series of Idaho State University, Pocatello, Idaho.
- Prause, N. (2007, September). Sexual psychophysiological studies in women. Invited presentation for the Women's Studies Program of Idaho State University, Pocatello, Idaho.
- Prause, N. (2004, October). The role of emotion and attention in variations in sexual desire. Paper presented at the annual meeting of the Social Science Research Council, Bloomington, IN.

Prause, N. (2004, May). Determining sexual desire. Paper presented at the Kinsey Institute Interdisciplinary Seminar Series, Bloomington, IN.

Prause, N. (2003, November). Don't get it, don't want it, don't care: Constructing Asexuality. Paper presented at the Gay, Lesbian, Bisexual, Transsexual organization, Bloomington, IN.

Prause, N. (2002, May). Effects of acute ethanol consumption on sexual arousal and sexual risk taking. Paper presented at the National Institutes of Mental Health Program in Identity, Self, Role, and Mental Health, Department of Sociology, Bloomington, IN.

Prause, N., Weinberg, M., & Graham, C. A. (2002, March). Rethinking low sexual desire: The desire construct and asexuality. Paper presented at the Clinical Colloquium series of the Indiana University Department of Psychology in Bloomington, Indiana, United States.

REFERENCES

William P. Hetrick, PhD
Dept Psychological and Brain Sciences
Indiana University
1101 E Tenth St.
Bloomington, IN 47405

Julia Heiman, PhD
The Kinsey Institute for Research in Sex, Gender, and Reproduction
313 Morrison Hall
1165 E. Third St.
Bloomington, IN 47405

Cynthia Graham, PhD
Isis Education Centre
Warneford Hospital
Headington, Oxford OX3 7JX

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VA Medical Center (182 JP)
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150 South Huntington Avenue
Boston, MA 02130