

CURRICULUM VITAE

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Kyle M. Baumbauer
Assistant Professor
University of Connecticut School of Nursing
U-2026, 231 Glenbrook Rd
Storrs, CT 06269-2026
(860) 486-0913
Kyle.baumbaeur@uconn.edu

I. EDUCATION

<u>Degree</u>	<u>Institution</u>	<u>Major Field</u>	<u>Minor Field</u>	<u>Date Completed</u>
PhD	Kent State University	Experimental Psychology		2005
MA	Kent State University	Experimental Psychology		2002
BA	University of Central Florida	Sociology		2000
BS	University of Central Florida	Psychology		1999

III. PROFESSIONAL EXPERIENCE

A. Experience in Higher Education (Present position first)

<u>From - To</u>	<u>Institution</u>	<u>Nature of Work</u>	<u>Academic Status</u>
2014 – Present	University of Connecticut School of Nursing		Assistant Professor
2014 – Present	University of Connecticut UConn Health Center	Department of Neuroscience	Assistant Professor
2013 – 2014	University of Pittsburgh School of Medicine	Department of Neurobiology	T32 Postdoctoral Scholar
2011 – 2013	University of Pittsburgh School of Medicine	Department of Neurobiology	Postdoctoral Associate
2008 – 2011	Texas A&M University Department of Psychology	Behavioral & Cellular Neuroscience	Postdoctoral Research Associate
2000 – 2005 1999	Kent State University University of South Florida/ Florida Mental Health Institute	Graduate Research Assistant/Teaching Fellow Schizophrenia Care and Assessment Program	Data Collection Intern

IV. **PUBLICATIONS (# data-based) (*Peer Reviewed)** (most recent first)

Grau, J.W., Huie, J.R., Lee, K.H., Hoy, K.C., Huang, Y.-J., Turtle, J.D., Strain, M.M., Baumbauer, K.M., Miranda, R.M., Hook, M.A., Ferguson, A.R., & Garraway, S.M. (in press). Metaplasticity and behavior: How training and inflammation affect plastic potential within the spinal cord and recovery after injury. *Frontiers in Neural Circuits*.

Baumbauer, K.M., Deberry, J.J., Adelman, P.C., Miller, R.H., Koerber, H.R., Davis, B.M., & Albers, K.M. (under review). Keratinocytes can initiate cutaneous sensations. *Cell Reports*.

Moliver, D.C., Rau, K.K., Jankowski, M.P., Soneji, D.J., Baumbauer, K.M., & Koerber, H.R. (under review). Deletion of the ATP/UTP receptor P2Y2 alters mechanical and thermal response properties in a population of TRPV1-containing cutaneous afferents. *PLoS One*.

Fava, E., Hull, R., Baumbauer, K.M., & Bortfeld, H. (2014). Hemodynamic Responses to Speech and Music in Preverbal Infants. *Child Neuropsychology*, 20, 430-448.

Baumbauer, K.M., Lee, K.H., Puga, D.A., Hughes, A.J., & Grau, J.W. (2012). Temporal regularity determines the impact of electrical stimulation on tactile reactivity and response to capsaicin in spinally transected rats. *Neuroscience*, 227, 119-133.

Ferguson, A.R., Huie, J.R., Crown, E.D., Baumbauer, K.M., Hook, M.A., Garraway, S.M., Lee, K.H., Hoy, K.C., & Grau, J.W. (2012). Maladaptive spinal plasticity opposes spinal learning and recovery in spinal cord injury. *Frontiers in Integrative Physiology*. doi: 10.3389/fphys.2012.00399

Grau, J.W., Huie, J.R., Garraway, S.M., Hook, M.A., Crown, E.D., Baumbauer, K.M., Lee, K.H., Hoy, K.C., & Ferguson, A.R. (2012). Impact of behavioral control on the processing of nociceptive stimulation within the dorsal horn. *Frontiers in Integrative Physiology*, 3, 1-21.

Huie, J.R., Garraway, S.M., Baumbauer, K.M., Hoy, K.C., Jr., Beas, B.S., Montgomery, K.S., Bizon, J.L., & Grau, J.W. (2012). Brain derived neurotrophic factor (BDNF) promotes adaptive plasticity within the spinal cord and mediates the beneficial effects of controllable stimulation. *Neuroscience*, 200, 74-90.

Huie, J.R., Baumbauer, K.M., Lee, K.H., Beattie, M.S., Bresnahan, J.C., Ferguson, A.R., & Grau, J.W. (2012). Glial tumor necrosis factor alpha (TNF α) generates metaplastic inhibition of spinal learning. *PLoS ONE*, 7, e39751. doi:10.1371/journal.pone.0039751.

Baumbauer, K.M., & Grau, J.W. (2011). Timing in the Absence of Supraspinal Input III: Regularly Spaced Cutaneous Stimulation Prevents and Reverses the Spinal Learning Deficit Produced by Peripheral Inflammation. *Behavioral Neuroscience*, 125, 37-45.

Baumbauer, K.M., Huie, J.R., Hughes, A.J., & Grau, J.W. (2009). Timing in the Absence of Supraspinal Input II: Regular spaced stimulation induces a lasting alteration in spinal unktion that depends on the NMDA receptor, protein synthesis, and BDNF. *Journal of Neuroscience*, 29, 14383-14393.

***This Week in the Journal featured article.*
<http://www.jneurosci.org/cgi/content/full/29/46/i>

Baumbauer, K.M., Young, E.E., & Joynes, R.L. (2009). Pain and learning in a spinal system: Contradictory outcomes from Common Origins. *Brain Research Reviews*, 61, 124-143.

***Featured on MDLinx.com, 10 Oct 2009*
<http://www.mdlinx.com/internalmdlinx/news-article.cfm/2916554>

Vichaya, E.G., Baumbauer, K.M., Carcoba, L.M., Grau, J.W., & Meagher, M.W. (2009). Spinal glia modulate both adaptive and physiological processes. *Brain, Behavior, & Immunity*, 23, 969-976.

Young, E.E., Baumbauer, K.M., Hillyer, J.E., Patterson, A.M., Hoy, K.C., Jr., Mintz, E.M., & Joynes, R.L. (2008). The neonatal injury-induced spinal learning deficit in adult rats: Central mechanisms. *Behavioral Neuroscience*, 122, 589-600.

Baumbauer, K.M., Hoy, K.C., Jr., Huie, J.R., Hughes, A.J., Woller, S.A., Puga, D.A., Setlow, B., & Grau, J.W. (2008). Timing in the Absence of Supraspinal Input I: Variable, but not Fixed, Spaced Stimulation of the Sciatic Nerve Undermines Spinally-Mediated Instrumental Learning. *Neuroscience*, 155, 1030-1047.

***Evaluated by Dr. Kent Berridge for Faculty of 1000 Biology. Kent Berridge: Faculty of 1000 Biology, 28 Oct 2008*
www.f1000biology.com/article/id/1123485/evaluation

Baumbauer, K.M., Young, E.E., Hoy, K.C., Jr., Abood, A., & Joynes, R.L. (2007). Administration of a Ca²⁺/calmodulin-dependent protein kinase II (CaMKII) inhibitor reverses the noncontingent shock learning deficit observed in spinal rats. *Behavioral Neuroscience*, 121, 570-578.

Baumbauer, K.M., Young, E.E., Hoy, K.C., Jr., & Joynes, R.L. (2007). Intrathecal administration of neurokinin 1 and neurokinin 2 receptor antagonists undermines the savings effect in spinal rats trained in an instrumental learning paradigm. *Behavioral Neuroscience*, 121, 186-199.

Baumbauer, K.M., Young, E.E., Hoy, K.C., Jr., & Joynes, R.L. (2007). Neurokinin receptors modulate the impact of uncontrollable stimulation on adaptive spinal plasticity. *Behavioral Neuroscience*, 121, 1082-1094.

Gómez-Pinilla, F., Huie, J. R., Ying, Z., Ferguson, A.R., Crown, E.D., Baumbauer, K.M., Edgerton, V.R., & Grau, J.W. (2007). BDNF and Learning: Evidence that instrumental training promotes learning within the spinal cord by up-regulating BDNF expression. *Neuroscience*, 148, 893-906.

Young, E.E., Baumbauer, K.M., Elliott, A.E., & Joynes, R.L. (2007). Lipopolysaccharide induces a spinal learning deficit that is blocked by IL-1 receptor antagonism. *Brain, Behavior, & Immunity*, 21, 748-757.

***Highlighted in the 8/07 issue of BBI and accompanied by an invited commentary by Dr. Terence Deak (SUNY-Binghamton).*

Young, E.E., Baumbauer, K.M., Elliot, A., & Joynes, R.L. (2007). Neonatal hind-paw injury disrupts acquisition of an instrumental response in adult spinal rats. *Behavioral Neuroscience*, *121*, 1095-1100.

Young, E.E., Baumbauer, K.M., Hillyer, J.E., & Joynes, R.L. (2007). Local anesthetic treatment significantly attenuates acute pain responding but does not prevent the neonatal injury-induced reduction in adult spinal behavioral plasticity. *Behavioral Neuroscience*, *121*, 1073-1081.

Baumbauer, K.M., Young, E.E., Hoy, K.C., Jr., France, J.L., & Joynes, R.L. (2006). Intrathecal infusions of anisomycin impact the learning deficit but not the learning effect observed in spinal rats that have received instrumental training. *Behavioural Brain Research*, *173*, 299-309.

Baumbauer, K.M., Anderson, M.J., & Riccio, D.C. (2002). State dependent retention: The relevance of internal context. In R.W. Flint, Jr. (Ed.), *Forget it? Sources, theories, & mechanisms of alterations in mnemonic function* (pp. 39-50). North Chelmsford, MA: Courier Custom Publishing, Inc.

V. RESEARCH AND EVALUATION GRANTS RECEIVED (most recent first)

A. Grants and Contracts: Federal, Regional, State

<u>Date</u>	<u>Funder</u>	<u>Title</u>	<u>Role</u>	<u>Amount</u>
	International Association for the Study of Pain (IASP)	Travel Grant		

B. Grants: University

<u>Date</u>	<u>Funder</u>	<u>Title</u>	<u>Role</u>	<u>Amount</u>
	Kent State University Graduate Student Senate	Research Grant Award, Dissertation		
	Kent State University Graduate Student Senate	Research Grant Award, Master's Thesis		

VI. DISSERTATION AND THESIS SUPERVISION (most recent first)

<u>Date</u>	<u>Student Name</u>	<u>Title</u>	<u>Role</u>
2007 – 2009	Abbey Hughes		Co-director

VII. HONORS RECEIVED/ SPECIAL CERTIFICATIONS (most recent first)

A. Honors Received

a. Date Organization

- T32 Postdoctoral Fellowship- “Mechanisms and Clinical Presentation of Pain” NS073548
- Texas A&M University- Student Led Award for Teaching Excellence

(SLATE)

- American Psychological Association Committee on Animal Research and Ethics (CARE) Imprinting- Interdivisional Mentoring Fellowship Award
- Texas A&M University- Recovery of Function Travel Award
- Texas A&M University- Faculty of Neuroscience Travel Award
- American Psychological Association- Dissertation Award
- Kent State University- ONTAP Teaching Fellow
- Kent State University- Applied Psychology Center Graduate Student Paper Award
- Kent State University- Applied Psychology Center Travel Award
- Chappie James Most Promising Teacher Scholar
- Florida Bright Futures Scholar

VIII. REVIEW ACTIVITIES AND EDITORIAL BOARDS (most recent first)

A. Journal Reviewer/Editorial Boards

- Behavioral Brain Research
- Brain Research
- Growth Factors
- Neuropeptides
- International Journal of Nanomedicine
- Journal of Pain Research

IX. PRESENTATIONS (# Data-based) (* Refereed) (most recent first)

A. Invited Addresses

- Baumbauer, K.M. (2011, April) Mount Olive College, Psychology Department.
- Baumbauer, K.M. (2011, April) Mount Olive College, Psychology Department.
- Baumbauer, K.M. (2009, October) Rowan University, Psychology Department.

XI. TEACHING EXPERIENCE (most recent first)

Course title Role Number of Students

Fall 2010

- Introductory Psychology

Spring 2010

- Physiological Psychology

Fall 2009

- Introductory Psychology

Spring 2009

- Introductory Psychology

Spring 2006 – Spring 2008

- Introductory Psychology

Summer 2005

- General Psychology

Spring 2004

- Quantitative Methods in Psychology

Summer 2003

- Computer Applications in Psychology

Spring 2003

- Writing in Psychology

- Biopsychology

Fall 2002

- Writing in Psychology

- Basic Learning Processes

10/07