

SAUCIER, DEBORAH M.
Office of the President
Grant MacEwan University

PERSONAL

Birth date: April 1, 1966
 Birth Place: Saskatoon, Sk.
 Citizenship: Canadian
 Central Urban Metis Federation (local 165)
 Address: Office of the President
 Grant MacEwan University
 Edmonton AB

EDUCATION

1995	Ph.D.	University of Western Ontario
1990	M.Sc.	University of Victoria
1988	B.Sc. (First Class Honours)	University of Victoria
1985	International Baccalaureate	Lester B. Pearson College, Victoria, B.C.

POSITIONS HELD

2017-present	President Grant MacEwan University
2013 - 2017	Provost and Vice-President (Academic) University of Ontario Institute of Technology
2011-2013	Dean and Professor, Faculty of Science University of Ontario Institute of Technology
2009-2011	Professor, Department of Neuroscience University of Lethbridge
2008-2011	Chair, Department of Neuroscience University of Lethbridge
2006-2009	Associate Professor, Department of Neuroscience University of Lethbridge
2003-2006	Associate Professor, Department of Psychology University of Saskatchewan
1999-2003	Assistant Professor, Department of Psychology University of Saskatchewan
1996-1999	Assistant Professor, Department of Psychology University of Regina

1994-1996 Postdoctoral Fellow, Department of Psychology
University of Western Ontario

AWARDS

2006-2011	Canada Research Chair in Behavioural Neuroscience University of Lethbridge (Tier II)
1990-1994	Special University Scholarship University of Western Ontario (1990-1994)
1989-1990	Postgraduate Fellowship B, Natural Sciences and Engineering Research Council University of Victoria
1989-1990	President's Research Award University of Victoria
1983-1985	Entrance Scholarship Lester B. Pearson College of the Pacific, Victoria BC

ADMINISTRATIVE EXPERIENCE

Major appointments and positions:

2017-present President, Grant MacEwan University

2013 -2017 Provost and Vice-President (Academic), University of Ontario Institute of Technology (UOIT)

*2011-2013 Dean and Professor, Faculty of Science,
University of Ontario Institute of Technology*

2008-2011 Chair, Department of Neuroscience, University of Lethbridge.

Other Service Activities (Selected).

National/Provincial Committees:

1. Member of the Education Committee of Universities Canada (2018-present)
2. Member of the NSERC committee for RTIs (2011-2012, 2014-16, chair 2015 & 2016)
3. Member of the provincial (Ont.) strategy for engineering programming (2015-17)
4. Co-chair of the COU (Council of Ontario Universities) task-force on indigenizing the academy (2016-17)
5. Member of the COU working group on funding reform for the Province of Ontario (2015-17)
6. Member of the NSERC committee for the Steacie Awards (2009; 2011-2015)
7. Member of the Council of Ontario University's Ontario Women's Health Scholar's Fellowships Committee (2011-2015)
8. Member of the Natural Sciences and Engineering Research Council Appeals Committee for DGs (2011, 2012)

9. Heart and Stroke Foundation of Canada: Committee X: Fellowships (member 2004-2006, 2007; Chair: 2008- 2011)
10. Member of the Heart and Stroke Foundation of Canada: Committee for Fellowships and Early Research Awards (2011-2015, chair 2012, 2013, 2014, 2015)
11. Member of the CIHR grant review committee for aging and health initiative (2010)
12. Member of the Canada Research Chair Secretariat's taskforce for diversity and equity (2009-2011)
13. Member of the NSERC Committee 12: Grant selection committee for Psychology: Cognition and Neuroscience (2006, 2007, 2008; Chair: 2008)
14. AHFMR: Summer Studentships Review Committee (2006-2009)
15. Member of the Natural Sciences and Engineering Research Council Committee 188: Selection of Scholarships and Fellowships for the Life Sciences and Psychology (2001-2003; 2004-2005).

University, College & Departmental Committees (selected):

1. Member of the University Committee on Ethics in Human Research (USask; July 2001-2006; chair as of April 2003)
2. Member of the Committee on Academic Programs and Standards for the Humanities, Fine Arts and Social Sciences (USask; Sept. 2001-2004; chair as of Sept 2003)
3. University Committee for the Assurance of Animal Care (USask; 2002-2006 member of executive committee Aug. 2003-2006)
4. Member of the Saskatchewan Neuroscience Network Education Committee (2001-2006).
5. NSERC and SSHRC scholarship review committee (URegina; 1997-1999)

Reviewer for: numerous journals, and grant councils, including: NSERC*, CFI*, CRC*, CIHR*, AHFMR, FCAR*, Heart and Stroke Foundation of Canada*, among others.

*I review in both French and English.

SUPERVISION OF STUDENTS AND TEACHING

TEACHING: COURSEWORK

Courses Taught at UOIT

This course required 3 hrs of contact time per week and was completed in 1 semester

2013-14.

Biology 5000. Special Topics: Neuroplasticity, Neurogenesis, and the Hippocampus.
Enrollment 1.

Courses Taught at the University of Lethbridge

All of these courses required 3 hrs of lecturing/seminar work per week and were completed in 1 semester.

2010-2011

Neuroscience 3610– Human Neuropsychology, enrollment 47

Neuroscience 4630-Advances in Neuroendocrinology (co-taught with A. Iwaniuk), enrollment 8

2009-2010

Neuroscience 3850-Applied Statistics in Neuroscience, enrollment 20
 Neuroscience 5850-Applied Graduate Statistics in Neuroscience, enrollment 5
 Neuroscience 4850B-Neuropsychopharmacology, enrollment 12

2008-2009

Neuroscience 3600-Fundamentals of Neurobiology, enrollment 57
 Neuroscience 4850B-Neuropsychopharmacology, enrollment 16
 Psychology 1000-Introductory psychology (co-taught with 15 others)

2007-2008

Neuroscience 3600-Fundamentals of Neurobiology, enrollment 57
 Neuroscience 5850-Advanced Topics in Neuropsychology, enrollment 6
 Psychology 1000-Introductory psychology (co-taught with 15 others)

2006-2007

Psychology 3250- Applied Statistics in Psychology, enrollment 14
 Psychology 1000-Introductory psychology (co-taught with 15 others)

Courses Taught At the University of Saskatchewan

Courses with .3 designation required 3 hrs of lecturing per week and were completed in 1 semester; courses with a .6 designation required 3 hrs of lecturing per week and were completed over 2 semesters

2005-2006

Psychology 110.6- Introductory Psychology, enrollment 320
 Psychology 110.6- Introductory Psychology, enrollment 180 (co-taught with L. Sippola)

2004-2005

Psychology 110.6- Introductory Psychology, enrollment 290
 Psychology 343.3- Laboratory in behavioural neuroscience, enrollment 25.

2003-2004

Psychology 110.6- Introductory Psychology, enrollment 360 (co-taught with M. Sheppard)
 Psychology 110.6- Introductory Psychology, enrollment 250 (co-taught with M. Morrisson)
 Psychology 343.3- Laboratory in behavioural neuroscience, enrollment 22.
 Psychology 344.3- Advanced techniques in behavioural neuroscience, enrollment 10

2002-2003

Psychology 110.6- Introductory Psychology, enrollment 380
 Psychology 110.6- Introductory Psychology, enrollment 180 (co-taught with M. Morrisson)
 Psychology 343.3- Laboratory in behavioural neuroscience, enrollment 22.
 Psychology 344.3- Advanced techniques in behavioural neuroscience, enrollment 8 (co-taught with L.Elias).

2001-2002

Psychology 343.3- Laboratory in behavioural neuroscience, enrollment 18.
 Psychology 344.3- Advanced techniques in behavioural neuroscience, enrollment 5.

Psychology 444.3- Honours seminar in evolutionary psychology, enrollment 12 (Co-taught with L. Elias).

Psychology 842.3- Animal Cognition, enrollment 13

2000-2001

Psychology 242.3- Physiological psychology, enrollment 60.

Psychology 343.3- Laboratory in behavioural neuroscience, enrollment 19.

Psychology 344.3- Advanced techniques in behavioural neuroscience, enrollment 11.

Psychology 444.3- Honours seminar in evolutionary psychology, enrollment 13 (Co-taught with L. Elias).

1999-2000

Psychology 242.3- Physiological psychology, enrollment 51.

Psychology 342.6- Physiological and comparative psychology, enrollment 11.

Courses Taught At the University of Regina

All of these courses required 3 hrs of lecturing per week and were completed in 1 semester

1998-1999

Psychology 100 (x2)- Introduction to Psychology; enrollment 540 (total)

Psychology 204(x2)- Research Methods in Psychology; enrollment 45

Psychology 255 (x2)- Biological Foundations of Behavior; enrollment 90 (total)

Psychology 355- Brain Mechanisms and Behavior; enrollment 35

Psychology 455- Selected Topics in Neuroscience; enrollment 25

1997-1998

Psychology 100- Introduction to Psychology; enrollment 35

Psychology 204- Research Methods in Psychology; enrollment 45

Psychology 255 (x2)- Biological Foundations of Behavior; enrollment 90 (total)

Psychology 355- Brain Mechanisms and Behavior; enrollment 35

Psychology 356- Human Neuropsychology; enrollment 35

1996 (Sept.- Dec.)

Psychology 204- Research Methods in Psychology; enrollment 45

Psychology 255- Biological Foundations of Behavior; enrollment 90

TEACHING: SUPERVISION OF RESEARCH PROJECTS

Students Supervised at the University of Ontario Institute of Technology.

Graduate Students

*Gavin Scott** (May 2012-2015). Sex and seasonal variation in hippocampal volume and neurogenesis in the Eastern chipmunk, *Tamias Striatus*. *co-supervised with Hugo Lehmann

Honours Students

Rachel Dasendran (Sept 2013-Apr. 2014). Sexual dimorphism in the brain is reduced in a non-sexually dimorphic rodent.

Independent Studies Students (graduate and undergraduate research projects)

*Amber Anne Mullin** (summer 2015, 2016). Anterior cingulate cortex mnemonic function.
*Joshua Carr** (summer 2015). Neurogenesis in a variety of rodent species.
Rosalie Byrnes (summer 2012, 2013). Effects of endogenous but high levels of steroid hormones on spatial working memory in humans.

*co-supervised with Hugo Lehmann

Students Supervised at the University of Lethbridge

Postdoctoral Fellows

Charles Cook (Jan. 2007-Aug. 2009). EEG correlates of fine motor movement.
Christine Werk (Sept. 2007-Aug. 2008). Gender, sex and spatial ability.

Graduate Students

Erin Zelinski (Sept. 2009-2011). Neural correlates of individual differences in spatial working memory.
Megan Metzler (Sept 2009-2010)*. Bimanual skill acquisition: modulation by sex, aging, and auditory feedback. *co-supervised with G. Metz
Greg Christie (Sept. 2008-2010). Sex differences in EEG during a task of implicit learning.
Maede Ejaredar (Jan. 2007-June 2008). Kainic acid convulsions result in behavioural change and are affected by stress.
Crystal Ehresman (Sept. 2007-2010). Hippocampal volume, but not neurogenesis, is associated with object location memory.

*co-supervised with Gerlinde Metz

Independent Studies/Honours Students (graduate and undergraduate research projects)

<i>Robin Keeley</i>	Sept. 2010-Aug 2011
<i>Tine Gulbrandsen</i>	Jan. 2010-2011
<i>Sarah Papp</i>	Jan. 2010-2011
<i>Shari Ward</i>	Jan. 2010-2011
<i>Amanda Tyndall</i>	Sept. 2009-2011
<i>Brian Ward</i>	Sept. 2009-2011
<i>Michael Petrinchuk</i>	May-Aug. 2009
<i>Andrew Hatch</i>	Jan.-Apr. 2009
<i>Holden Ekberg</i>	Jan. 2008-2011
<i>Brooke Bocek</i>	Jan.-Apr. 2008
<i>Erin Ferguson</i>	Jan.-Apr. 2008
<i>Stephanie Booker</i>	July-Aug. 2007

Students Supervised at the University of Saskatchewan

Doctoral Students:

Dawn Lahti (July 2004-2007). Thesis title: Personality and gender effects associated with the face in the crowd phenomena.
Laurie Sykes-Tottenham (Sept. 2001-2006). Thesis title: Activational and organizational effects of testosterone on lateralized cognitive functions.
*Karen Gilletta** (Dec. 2000-2006; *co-supervised with L. Elias). Thesis title: Complementarity of left and right lateralized functions.

*Amanda Lisoway** (Sept. 2000-Dec. 2003). Thesis title: Do neonatal febrile seizures induce mossy fibre sprouting? *left program without completing (currently completing her PhD at the University of Toronto).

Masters Students:

Jennifer Burkitt (Sept. 2004-Mar. 2006). Thesis title: Sex differences in spatial ability in humans.

Daniel Krupp (Sept. 2002-Dec 2003). Thesis title: The association between testosterone and aggressive or risk taking behaviours in cooperative games.

Dan Laporte (Sept. 2000- Dec. 2002; co-supervised with M. Corcoran). Thesis title: Effects of neonatal seizures on instinctive behaviours, rough and tumble play and spatial learning.

Cherie Peterson (Sept. 1999- Sept. 2001). Thesis title: Relationships between sex, testosterone, gender and the drive for muscularity.

Honours Students

Nicole Thomas (Sept 2005-April 2006). Thesis title: Handedness and left-right confusion affect spatial ability.

Crystal Ehresman (Sept. 2005-April 2006). Thesis title: Get the point?

Wendie Marks (Sept. 2004- April 2005). Thesis title: LPS facilitates febrile convulsions.

Riaz Moola (Sept. 2004-April 2005). Thesis title: Mozart effect can be observed with the Indian Raga.

Sandy Shultz (Sept. 2004-April 2005). Thesis title: Effects of the complex environment on object location memory in the rat.

Avril Keller (Sept. 2003-April 2004). Thesis title: Ultrasonic vocalizations in febrilely seized pups are related to maternal behaviours.

Jennifer Burkitt (Sept. 2003-2004). Thesis title: diurnal variation in testosterone in men is related to performance in the virtual watermaze.

Farzana Karim Tessem (Sept. 2002-April 2003). Thesis title: Effects of unilateral forced nostril breathing on tests of attentional asymmetry.

Nicole Braun (Sept. 2002-April 2003). Thesis title: The selective cannabinoid antagonist, AM281, and its effects of higher cognitive function in the rat.

Lisa Lejbak (Sept. 2001- April 2002). Thesis title: Can the Mozart Effect be induced by music other than that composed by Mozart?

Marianne Hrabok (Sept. 2001-April 2002). Thesis title: A spatial visualization task that can be conducted in intrapersonal space.

Marla Pender (Sept. 2001-April 2002). Thesis title: Examining cognitive maps: Evidence from imagined navigation.

Melanie Borden (Sept. 2000-April 2001). Thesis title: Do febrile seizures induce changes in behaviours in the neonatal, juvenile, or adult rat?

Students supervised at the University of Regina

Masters Students:

Beattie, P.J. (Sept. 1997- June, 1999). Thesis title: Sex differences in navigating in virtual reality.

Honours Students:

Allen, D. (Jan 1999-Aug. 1999). Thesis title: An examination of sex differences in geographical knowledge with reference to a major Canadian geographic event.

- Beattie, P.J.* (Sept. 1996-Apr. 1997). Thesis title: Sex differences in a 3-dimensional route learning task.
- Blahut, C.* (Sept. 1998-Apr. 1999). Thesis title: Effects of progesterone-only oral contraceptives on cognitive and motor behaviors.
- Gaudette, N.* (Sept. 1999-Apr. 2000). Thesis title: Autobiographical memory and metamemory self-evaluation.
- Green, S.* (Sept. 1998- Apr. 1999). Thesis title: Do sex differences in remembering where items are located relate to the type of presentation of the object?
- Kaminski, N.* (Jan. 1999-Aug.1999). Thesis title: An examination of the drive for muscularity and its correlates with gender-role socialization.
- Kirkpatrick, D.G.* (Sept. 1997- Apr. 1998). Thesis title: Information on the Internet: The effects of multimedia presentations on learning and memory.
- Lisoway, A.J.* (Sept. 1999- Apr. 2000). Thesis title: Does a dual task paradigm provide evidence of spatial processing for an array of objects presented in extrapersonal space?
- Peterson, C.* (Sept. 1998- Apr. 1999). Thesis title: Is declarative memory in men and women affected differently by acute stress?
- Polos, S.* (Sept. 1996- Apr. 1997). Thesis title: The relationship between sex differences in cognitive abilities and the choice of university major.
- Saxberg, J.* (Sept. 1997- Apr. 1998) Thesis title: The effects of gender and sex upon sexually dimorphic cognitive abilities
- Savage, J.M.* (Sept. 1998-Apr. 1999). Thesis title: Implicit and explicit learning in the preschool child with Down syndrome.
- Weikum, A.* (Jan. 1998- Aug. 1998). Thesis title: The effects of early maturation on cognitive abilities
- Williams, J.* (Jan. 1998- Aug. 1998). Thesis title: Acquiescence rates in cognitively-impaired adults.

In addition, I have participated in the advisory committees of a number of students in graduate studies. This include being a member of the following student's advisory committees:

- Lori Sacrey (PhD student, Neuroscience)
- Callie Clark (MSc student, Neuroscience)
- Erin Prosser-Loose (PhD student, Nutrition)
- Joan Bobyn (PhD student, Nutrition)
- Kyle Brownell (PhD student, Kinesiology)
- Nicole Gerimiah (PhD student, Anatomy and Cell Biology)
- Kate Goodall (PhD student, Psychology)
- Leah Hatton (PhD student, Psychology)
- Lisa Lejbak (MA student/Psychology)
- Alistair MacFadden (MA student, Psychology)
- Bryan Quinn (MSc student, Nutrition)
- Tyler Rollheiser (MA student, Kinesiology)
- Michelle Shaw (PhD student, Psychology)
- Jason Wagner (MA student, Psychology)
- Remko Verspui (MSc student, Biology)

And acting as an External Examiner for the following dissertations:

- Nancy Farrell (PhD exam, Dept. of Psychology, Carleton University)
- James Heida (PhD exam, Dept. of Neuroscience, University of Calgary)
- Trevor Gilbert (PhD exam, Dept. Of Psychology, University of Calgary)

SCHOLARLY ACTIVITIES

Grants Previously Held:

- *Natural Science and Engineering Research Council* (2010-2016): Grant of \$210000 (over 5 years; 1 year extension) to D. **Saucier** to study sexually dimorphic spatial ability and neurogenesis.
- *Alberta Sepsis Network* (2009-2013). Grant of 5000000 (over 5 years) to C. Doig, P. Kubes and C. Joffe (PIs + 23 others, including Saucier) to fund translational research into sepsis. My part of the grant is 2.4% and was to investigate the neurocognitive effects of sepsis in the short and long-term using EEG and neuropsychological and/or behavioural neuroscience techniques in rodents and humans.
- *Canadian Foundation for Innovation* (2006-2009): Grant of \$235,228 (to the University of Lethbridge and D. **Saucier**, with 355,045 in matching contributions) to purchase equipment to conduct research into the neural basis of individual differences in the rat and human.
- *Natural Science and Engineering Research Council* (2002-2010): Grant of \$208000 (over 8 years) to D. **Saucier** to study sexually dimorphic spatial ability.
- *Gasotransmitter Research And Training (GREAT)* (2004-2009): Training grant from CIHR of 1368000 (over 6 years) to fund training of graduate students, post-doctoral fellows, researchers and individuals in community or population health to study the role of gasotransmitters in modern health science.
- *Small Equipment Grant Program, Province of Alberta* (2007-2008): Grant of \$151,170 (over 1 year) to Sutherland, **Saucier** & Cross to purchase equipment to upgrade the CCBN Imaging Centre.
- *University of Lethbridge, Start-up Funds* (2007-2008): Grant of \$55,000 (over 2 years) to D. **Saucier** to study individual differences in normal and pathological behaviour.
- *Heart and Stroke Foundation of Canada* (2004-2008): Grant of \$177,300 (over 4 years) to D. **Saucier** to study age and environmental effects on hypoxic-ischemic brain damage.
- *Canadian Institutes for Health Research* (2002-2006): Grant of Corcoran: Operating Grant of \$355,735 (\$71,147 per year for 5 years; awarded Jan 24, 2002) to Corcoran, M.E., **Saucier**, D.M. & Zhang, X. to perform preclinical studies of the antiepileptic effects of cannabinoids.
- *Heart and Stroke Foundation of Saskatchewan* (2002-2004): Grant of \$108,000 (over 2 years) to D. **Saucier** (principle investigator) and J.Yager to study age and environmental effects on hypoxic-ischemic brain damage.
- *Natural Science and Engineering Research Council* (1998-2002): Grant of \$52, 800 (over 4 years) to D. Saucier to study spatial navigation in humans.
- *Rick Hansen Neurotrauma Initiative* (1999-2002): Grant of \$150,000 (over 3 years) to Drs. B. Juurlink and D. Saucier to study recovery of cognitive function after reductions in oxidative stress.
- *Canadian Institutes for Health Research* (2002): Equipment Grant of \$15,098 to Corcoran, M.E., **Saucier**, D.M. & Zhang, X. to purchase new EEG and surgery equipment.

Papers Published in Refereed Journals (*italics are students, technicians or postdocs supervised by DMS*):

Ashley M.A. Bahry, Jennifer Corrigan, Edward A. Armstrong, Keqin Shen, Antoinette T. Nguyen, Rachel I. Yager, Neesha Persad, Deborah M. Saucier & Jerome Y. Yager (submitted April, 2018). Broccoli sprout supplementation during pregnancy prevents neurobehavioural deficits into adulthood, in a model of placental insufficiency and cerebral palsy. *Annals of Neurology*, (24 manuscript pages).

Gavin Scott, Deborah Saucier, & Hugo Lehmann (2016). Contrasting the amnesic effects of lesions and temporary inactivations of the hippocampus on context memory. *Behavioral and Brain Science*, 4, 184-198.

Keeley, R.J., Burger, D.K., Saucier, D.M. & Iwaniuk, A.N. (2015). The size of non-hippocampal brain regions varies by season and sex in Richardson's ground squirrels. *Neuroscience*, 289, 194-206.

Burger, D.K., Gulbrandsen, T. Saucier, D.M. & Iwaniuk, A.N. (2014). The effects of season and sex on dentate gyrus size and neurogenesis in a wild rodent, Richardson's ground squirrel (*Urocitellus Richardsonii*). *Neuroscience*, 272, 240-251.

Robin J. Keeley, Amanda Tyndall, Gavin A. Scott, & Deborah M. **Saucier** (2013). Sex differences in cue strategy in a modified version of the water maze task: correlations between brain and behavior. *PLoS One*, 8, e69727.

Christie, G., Cook, C., Sutherland, J., Sutherland, R., Tata, M. & **Saucier**, D. (2013). Mental rotational ability is correlated with spatial but not verbal working memory performance and P300 amplitude in males. *PloS One*, 8, e57390.

Metzler, M., **Saucier**, D.M.* & Metz, G.* (2013). Enriched childhood experiences modulate age-related motor and cognitive decline. *Frontiers in Neuroscience*, 7, 1 (DOI: 10.3389/fnbeh.2013.00001). * both authors contributed equally to the manuscript.

Burger, D., Saucier, J., Iwaniuk, A., & **Saucier**, D. (2013). Seasonal and sex differences in the hippocampus of a wild rodent. *Behavioural Brain Research*, 236, 121-138.

Ward, B., Day, L., Wilkening, S., Wylie, D., **Saucier**, D. & Iwaniuk, A. (2012). Hummingbirds have a greatly enlarged hippocampal formation. *Biology Letters*, 8, 657-659. doi: 10.1098/rsbl.2011.1180

Saucier, D.M. Armstrong, E.A., & Yager, J.Y. (2010). Housing Environment and Age Affect Behavioural Recovery from Ischemic Brain Damage. *Behavioural and Brain Research*, 214, 48-54.

Cook, C.M. & **Saucier**, D.M. (2010). Mental Rotation, Targeting Ability and Baron-Cohen's Empathizing-Systemizing Theory of Sex Differences. *Personality and Individual Differences*, 49, 712-716.

McCreary, D. & **Saucier**, D.M. (2009). Drive for muscularity, body comparison and social physique anxiety in men and women. *Body Image: an International Journal of Research*, 6, 24-30.

Hossein Noyan-Ashraf, M., Sadeghinejad, Z., Davies, G.F., Ross, A.R., **Saucier**, D., Harkness, T.A.A., & Juurlink, B.H.J. (2008). Phase 2 Protein Inducers In The Diet Promote Healthier Aging. *Journal of Gerontology*, 63, 1168-1176.

Ehresman, C., **Saucier**, D., Heath, M., & Binsted, G. (2008). Progressive illusory bias during closed-loop pointing. *Experimental Brain Research*, 188, 371-378.

Saucier, D.M., Ehresman, C.A., Keller, A.J., Armstrong, E., Elderkin, A., & Yager, J. (2008). Hypoxia ischemia affects ultrasonic vocalization in the neonatal rat. *Behavioural Brain Research*, 190, 243-247.

Saucier, D.M., Shultz, S.R., Keller, A.J., Cook, C.M., & Binsted, G. (2008). Sex Differences in Object Location Memory and Spatial Navigation in Long-Evans Rats. *Animal Cognition*, 11, 129-137.

Saucier, D.M., Yager, J.Y., Armstrong, E.A., Keller, A., & Shultz, S. (2007). Enriched Environment and the Effect of Age on Ischemic Brain Damage. *Brain Research*, 1170, 31-38.

Prosser-Loose, E.J., **Saucier**, D.M., & Paterson, P.G. (2007). Can a reward-based behavioral test be used to investigate the effect of protein-energy malnutrition on functional outcome following global ischemia? *Nutritional Neuroscience*, 10, 145-150.

Binsted, G., Brownell, K., Heath, M., & **Saucier**, D. (2007). Moving to things you don't see. *Proceedings of the National Academy of Science*, 104, 12669-12672.

Burkitt, J., Widman, D. & **Saucier**, D.M. (2007). Evidence for the influence of testosterone in the performance of spatial navigation in a virtual water maze in women but not in men. *Hormones and Behavior*, 51, 649-54.

Saucier, D., Lisoway, A., Green, S., & Elias, L. (2007). Female advantage for object location memory in peripersonal but not extrapersonal space. *Journal of the International Neuropsychological Society*, 13, 683-686.

Yager, J.Y., Wright, S., Armstrong, E.A., Jahraus, C.M., & **Saucier**, D.M. (2006). The influence of aging on recovery following ischemic brain damage. *Behavioural Brain Research*, 173, 171-180.

Cook, C.M., **Saucier**, D.M., Thomas, A.W., & Prato, F.S. (2006). Exposure to ELF magnetic and ELF-modulated radiofrequency fields: The time course of physiological and cognitive effects observed in recent studies (2001-2005). *Bioelectromagnetics*, 27, 613-627.

Thomas, N.A., Burkitt, J.A., & **Saucier**, D.M. (2006). Photographer preference or image purpose? An investigation of posing bias in mammalian and non-mammalian species. *Laterality*, 11, 350-354.

Burkitt, J.A., **Saucier**, D.M., Thomas, N.A., & Ehresman, C. (2006). When advertising turns "cheeky"! *Laterality*, 11, 277-86.

Yager, J.Y., Wright, S., Armstrong, E.A., Jahraus, C.M. & **Saucier**, D.M. (2005). A new model for determining the influence of age and sex on functional recovery following hypoxic-ischemic brain damage. *Developmental Neuroscience*, 27, 112-120.

- Bobyn, P.J., Corbett, D., **Saucier**, D.M., Noyan-Ashraf, M.H., Juurlink, B.H. & Paterson, P.G. (2005). Protein-energy malnutrition impairs functional outcome in global ischemia. *Experimental Neurology*, 196, 308-315.
- Elias, L.J., Robinson, B., & **Saucier**, D.M. (2005). Rightward biases in free-viewing visual bisection tasks: implications for leftward responses biases on similar tasks. *Brain and Cognition*, 59, 296-8.
- Sykes Tottenham, L. **Saucier**, D.M., Elias, L.J., & Gutwin, C. (2005). Men are more accurate at aiming at targets in both intrapersonal and extrapersonal space. *Perceptual and Motor Skills*, 101, 3-12.
- Jiang, W., Van Cleemput, J., Sheerin, A.H., Ji, S.P., Zhang, Y., **Saucier**, D.M., Corcoran, M.E., & Zhang, X. (2005). Involvement of extracellular regulated kinase and p38 kinase in hippocampal seizure tolerance. *Journal of Neuroscience Research*, 81(4), 581-588.
- McCreary, D, **Saucier**, D.M., & Courtenay, W. (2005). The drive for muscularity and masculinity: Testing the associations among gender role traits, behaviours, attitudes, and conflict. *Psychology of Men and Masculinity*, 6, 83-94.
- J. Y. Yager, E. A. Armstrong, C. M. Jaharus, D. M. **Saucier**, & E. C. Wirrell. (2004). Preventing Hyperthermia Decreases Brain Damage Following Neonatal Hypoxic-Ischemic Seizures. *Brain Research*, 1011, 48-57.
- Keller, A.J., **Saucier**, D.M., Sheerin, A.H., & Yager, J.Y. (2004). Febrile convulsions affect ultrasonic vocalizations in the rat pup. *Epilepsy and Behavior*, 5, 649-654.
- Aaron H. Sheerin, Xia Zhang, Deborah.M. **Saucier** & Michael E. Corcoran. (2004). Selective antiepileptic effects of N-palmitoylethanolamide, a putative endocannabinoid. *Epilepsia*, 45 (10), 1184-1188.
- Sheerin, A.H., Nylen, K., Zhang, X., **Saucier**, D.M., & Corcoran, M.E. (2004). Further evidence for a role of the claustrum in epileptogenesis. *Neuroscience*, 125(1), 57-62.
- Laurie Sykes Tottenham & Deborah **Saucier** (2004). Throwing Accuracy during Prism Adaptation: Male Advantage for Throwing Accuracy is Independent of Prism Adaptation Rate. *Perceptual and Motor Skills*, 98, 1449-1455.
- Saucier**, D.M., Karim-Tessem, F., Sheerin, A., & Elias, L.J. (2004). Forced nostril breathing affects laterality for dichotic emotional listening. *Brain and Cognition*, 55, 403-405.
- Bell, S. & **Saucier**, D. (2004). Relationship between environmental pointing accuracy, mental rotation and hormones. *Journal of Environment and Behavior*, 36, 251-265.
- McCreary, D.R., Sasse, D.K., **Saucier**, D.M. & Dorsch, K.D. (2004). Measuring the drive for muscularity scale in men and women. *Psychology of Men and Masculinity*, 5(1), 49-58.
- Deborah **Saucier**, Miles Bowman & Lorin Elias (2003). Sex differences in the effect of articulatory or spatial dual-task interference during navigation. *Brain and Cognition*, 53, 346-350.

Elias, L.J., **Saucier**, D.M., Sarty, G.E. & *Hardie, C.* (2003). How are synaesthetes unique? Behavioural and functional neuroanatomical investigations. *Cognitive Brain Research*, 16, 232-237.

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Selected Published Abstracts

Rachel Dasendran, Gavin Scott, Hugo Lehmann, Andrew Iwaniuk & Deborah **Saucier** (2014). Examination of sex differences in the volumes of brain and brain regions in the Eastern Chipmunk. *Society for Neuroscience Abstracts*.

Gavin A. Scott, Rachel Dasendran, Hugo Lehmann, Andrew N. Iwaniuk & Deborah M. **Saucier** (2014). Hippocampal neurogenesis varies seasonally in male Eastern Chipmunks. *Society for Neuroscience Abstracts*.

Gavin A. Scott, Deborah M. **Saucier** & Hugo Lehmann (2013). Contrasting the amnesic effects of lesions and temporary inactivation of the hippocampus on context and spatial memory in the rat. *Society for Neuroscience Abstracts*.

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Iwaniuk, A.N., Keeley, R.J., Burger, D.K., & **Saucier**, D.M. (2013). Sexual dimorphism of brain region volumes varies by season in ground squirrels. *Society for Neuroscience Abstracts*.

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Books.

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¹ I am revising the text to incorporate indigenous content into at least 10 chapters of the 16 chapter text. At this time, authorship has not been finalized. This project will be complete in April, 2019.

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Selected Invited Public Lectures

Jan. 2019	CANNEXUS: National Career Development Conference (Ottawa, ON): Keynote Lecture: My 'useless' degree and where it got me.
April 2018	Famous Five Foundation (Edmonton, AB): Keynote.
Apr. 2018	Ted-X talk (Edmonton, AB): Strong and Free: Having Hard Discussions
Nov. 2017	Conference Board of Canada: chair of a panel to discuss how to enhance engagement of indigenous students at the Skills and Post-Secondary Education Summit.
May 2017	University of Saskatchewan Health Research Day: Keynote.
May 2016	Pearson Education: Current Trends in Career Focused Education.
May 2013	TedX talk (Oshawa, Ont.): Why Science Needs the Humanities.
Jan. 2012	Royal Canadian Institute for the Advancement of Science: Invited Lecture.
June 2012	Let's Talk Science Annual Meeting: Keynote Lecture.
June 2009	Trent University: Invited Lecture.
May 2008	Commentary on sex differences in spatial navigation, Japanese Broadcasting Company
July 2007	International Conference on Teaching in Psychology, Vancouver, B.C.: Invited Lecture.
Apr. 2006	British Columbia Psychology Articulation: Keynote address.
June 2005	Commentary for <i>Quirks and Quarks</i> , CBC Radio 1.
Nov. 2005	Universite de Montreal: Invited Lecture.
Dec. 2005	University of Calgary: Invited Lecture.
Mar. 2004	Brain Awareness Week, Saskatoon, Sk.: Invited lecture.
June 2004	Kindling 6, Victoria BC.: Invited lecture.
June 2004	Commentary for CBC documentary, <i>War of the Sexes</i> (aired Mar. 2006) Sex differences in language.
Aug. 2004	Commentary for CBC documentary, <i>War of the Sexes</i> (aired Mar. 2006) Sex differences in spatial ability.
Nov. 2003	Saskatchewan Police College, University of Regina: Invited Lecture.
July 2003	City of Saskatoon Police Service: Invited Lecture.
Nov. 2002	University of Calgary: Invited Lecture