

## **Raina D. Pang, PhD**

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### **Education**

**Ph.D., Doctoral Program in Neuroscience** 2012  
University of Southern California, Los Angeles, CA

**B.S., Psychology; Minor: Anthropology** 2007  
University of Oregon, Eugene, OR

### **Academic Positions**

Assistant Professor of Research, Department of Preventive Medicine, Keck School of Medicine of the University of Southern California, Los Angeles, CA 2015-Present

Associate Member, Norris Comprehensive Cancer Center, Keck School of Medicine of the University of Southern California, Los Angeles, CA 2015-Present

Postdoctoral Fellow, USC Health, Emotion, & Addiction Laboratory, Department of Preventive Medicine, Keck School of Medicine of the University of Southern California, Los Angeles, CA 2012-2015

Adjunct Instructor, Department of Psychology, Occidental College, Los Angeles, CA 2014-2015

Adjunct Instructor, Department of Psychology, Citrus College, Glendora, CA 2015

Teaching Assistant, Department of Biological Sciences, University of Southern California, Los Angeles, CA 2010-2012

Graduate Research Assistant, Laboratory of Vertebrate Functional Brain Mapping, Department of Psychiatry and Behavioral Medicine, University of Southern California Keck School of Medicine, Los Angeles, CA 2008-2012

### **Funded Research Awards & Grants**

7/2015 – 6/2020

K01 DA040043 (PI: Pang)

NIH/NIDA

Ovarian hormone effects on smoking

This career development award supports field research investigating the effects of estrogen and progesterone on smoking behavior using novel methods such as ecological momentary assessment combined with biological hormonal assessment.

Role: PI

7/2016-6/2018 (Competitive Renewal × 1)

N/A (PI: Pang)

USC Undergraduate Research Associates Program

Undergraduate fellowship in sex related factors in addiction

This project supports the involvement of one undergraduate student in ongoing human research studies investigating sex-related factors in addiction (e.g., hormones, menstrual related mood disorders). The ultimate aim is to provide students with advanced training in research methodology and scientific communication.

Role: PI

### **Research Awards and Grants (Under Review)**

N/A (PI: Pang)

Tobacco Related Disease Research Program (TRDRP)

Smoking reinstatement in major depressive disorder: a lab study

This laboratory study investigates negative affect dynamics and DHEA(S) on smoking reinstatement in major depressive disorder.

Role: PI

N/A (PI: Pang)

Tobacco Related Disease Research Program (TRDRP)

Discrimination and nicotine e-cigarettes on smoking reinstatement

This laboratory study investigates whether nicotine administration from e-cigarettes could reduce distress occurring following discrimination.

Role: PI

### **Completed Research Awards and Grants**

22-FT-0062 (PI: Pang)

Tobacco Related Disease Prevention Program (TRDRP)

Menstrual Cycle and Nicotine Effects on Response Inhibition in Smoking

This career development award supports interdisciplinary research integrating neuroendocrinology, behavioral pharmacology, and cognitive control to study nicotine addiction in women.

Role: PI

R21 DA034768 (PI: Leventhal)

NIH/NIDA

Smokers.

This project investigates the interactive effects of ovarian hormones and nicotine on cognitive control and motivation to smoke in female smokers.

Role: Postdoctoral Research Fellow

### **Manuscripts under review**

Guillot, C. R., Blackledge, S. M., Douglas, M. E., **Pang, R. D.**, Kirkpatrick, M. G., & Leventhal, A. M. (*under review*). Negative affect mediates relations of anxiety sensitivity with tobacco, alcohol, and drug use problems in adolescents. *Anxiety, Stress, & Coping*.

### **Manuscripts published or in press; \* Student/Trainee author working under my mentoring**

1. Weible, A. P., Rowland, D. C., **Pang, R.**, & Kentros, C. (2009). Neural correlates of novel object and novel location recognition behavior in the mouse anterior cingulate cortex. *J Neurophysiol*, *102*, 2055-2068. <http://dx.doi.org/10.1152/jn.00214.2009>
2. **Pang, R. D.**, Wang, Z., Klosinski, L. P.,\* Guo, Y., Herman, D. H., Celikel, T., Holschneider, D. P. (2011). Mapping functional brain activation using [14C]-iodoantipyrine in male serotonin transporter knockout mice. *PLoS One*, *6*, e23869. <http://dx.doi.org/10.1371/journal.pone.0023869>
3. Wang, Z., Bradesi, S., Charles, J. R., **Pang, R. D.**, Maarek, J. M., Mayer, E. A., & Holschneider, D. P. (2011). Functional brain activation during retrieval of visceral pain-conditioned passive avoidance in the rat. *Pain*, *152*, 2746-2756. <http://dx.doi.org/10.1016/j.pain.2011.08.022>
4. **Pang, R. D.**, Holschneider, D. P., & Miller, J. D. (2012). Circadian rhythmicity in serotonin transporter knockout mice. *Life Sci*, *91*, 365-368. <http://dx.doi.org/10.1016/j.lfs.2012.07.018>
5. Wang, Z., **Pang, R. D.**, Hernandez, M., Ocampo, M. A., & Holschneider, D. P. (2012). Anxiolytic-like effect of pregabalin on unconditioned fear in the rat: an autoradiographic brain perfusion mapping and functional connectivity study. *Neuroimage*, *59*, 4168-4188. <http://dx.doi.org/10.1016/j.neuroimage.2011.11.047>
6. **Pang, R. D.**, & Leventhal, A. M. (2013). Sex differences in negative affect and lapse behavior during acute tobacco abstinence: a laboratory study. *Exp Clin Psychopharmacol*, *21*, 269-276. <http://dx.doi.org/10.1037/a0033429>
7. Leventhal, A. M., Greenberg, J. B., Trujillo, M. A., Ameringer, K. J., Lisha, N. E., **Pang, R. D.**, & Monterosso, J. (2013). Positive and negative affect as predictors of urge to smoke: temporal factors and mediational pathways. *Psychol Addict Behav*, *27*, 262-267. <http://dx.doi.org/10.1037/a0031579>
8. Wang, Z., Myers, K. G., Guo, Y., Ocampo, M. A., **Pang, R. D.**, Jakowec, M. W., & Holschneider, D. P. (2013). Functional reorganization of motor and limbic circuits after exercise training in a rat model of bilateral parkinsonism. *PLoS One*, *8*, e80058. <http://dx.doi.org/10.1371/journal.pone.0080058>

9. Wang, Z., Ocampo, M. A., **Pang, R. D.**, Bota, M., Bradesi, S., Mayer, E. A., & Holschneider, D. P. (2013). Alterations in prefrontal-limbic functional activation and connectivity in chronic stress-induced visceral hyperalgesia. *PLoS One*, *8*, e59138. <http://dx.doi.org/10.1371/journal.pone.0059138>
10. **Pang, R. D.**, Farrahi, L.,\* Glazier, S., Sussman, S., & Leventhal, A. M. (2014). Depressive symptoms, negative urgency and substance use initiation in adolescents. *Drug Alcohol Depend*, *144*, 225-230. <http://dx.doi.org/10.1016/j.drugalcdep.2014.09.771>
11. **Pang, R. D.**, Hom, M. S.,\* Geary, B. A.,\* Doran, N., Spillane, N. S., Guillot, C. R., & Leventhal, A. M. (2014). Relationships between trait urgency, smoking reinforcement expectancies, and nicotine dependence. *J Addict Dis*, *33*, 83-93. <http://dx.doi.org/10.1080/10550887.2014.909695>
12. **Pang, R. D.**, Khoddam, R.,\* Guillot, C. R., & Leventhal, A. M. (2014). Depression and anxiety symptoms moderate the relation between negative reinforcement smoking outcome expectancies and nicotine dependence. *J Stud Alcohol Drugs*, *75*, 775-780.
13. Holschneider, D. P., Wang, Z., & **Pang, R. D.** (2014). Functional connectivity-based parcellation and connectome of cortical midline structures in the mouse: a perfusion autoradiography study. *Front Neuroinform*, *8*, 61. <http://dx.doi.org/10.3389/fninf.2014.0006>
14. Guillot, C. R., **Pang, R. D.**, & Leventhal, A. M. (2014). Anxiety sensitivity and negative urgency: a pathway to negative reinforcement-related smoking expectancies. *J Addict Med*, *8*, 189-194. <http://dx.doi.org/10.1097/adm.0000000000000017>
15. Quinn, A., Sekimura, S., **Pang, R.**, Trujillo, M., Kahler, C. W., & Leventhal, A. M. (2014). Hostility as a predictor of affective changes during acute tobacco withdrawal. *Nicotine Tob Res*, *16*, 335-342. <http://dx.doi.org/10.1093/ntr/ntt151>
16. **Pang, R. D.**, Zvolensky, M. J., Schmidt, N. B., & Leventhal, A. M. (2015). Gender differences in negative reinforcement smoking expectancies. *Nicotine Tob Res*, *17*, 750-754. <http://dx.doi.org/10.1093/ntr/ntu226>
17. Bello, M. S.,\* **Pang, R. D.**, Cropsey, K. L., Zvolensky, M. J., Reitzel, L. R., Huh, J., & Leventhal, A. M. (2015). Tobacco Withdrawal Amongst African American, Hispanic, and White Smokers. *Nicotine Tob Res*. <http://dx.doi.org/10.1093/ntr/ntv231>
18. Guillot, C. R., **Pang, R. D.**, Leventhal, A. M., Liang, T., & Berman, M. E. (2015). The association of SNCA with hazardous alcohol use is mediated by impulsivity. *Psychiatry Res*, *226*, 523-524. <http://dx.doi.org/10.1016/j.psychres.2015.02.011>

19. Wolitzky-Taylor, K., Guillot, C. R., **Pang, R. D.**, Kirkpatrick, M. G., Zvolensky, M. J., Buckner, J. D., & Leventhal, A. M. (2015). Examination of anxiety sensitivity and distress tolerance as transdiagnostic mechanisms linking multiple anxiety pathologies to alcohol use problems in adolescents. *Alcohol Clin Exp Res*, *39*, 532-539. <http://dx.doi.org/10.1111/acer.12638>
20. Bidwell, L. C., Knopik, V. S., Audrain-McGovern, J., Glynn, T. R., Spillane, N. S., Ray, L. A., . . . Leventhal, A. M. (2015). Novelty Seeking as a Phenotypic Marker of Adolescent Substance Use. *Subst Abuse*, *9*, 1-10. <http://dx.doi.org/10.4137/sart.s22440>
21. **Pang, R. D.**, Bello, M. S.,\* Stone, M. D.,\* Kirkpatrick, M. G., Huh, J., Monterosso, J., . . . Leventhal, A. M. (2016). Premenstrual symptoms and smoking-related expectancies. *Addict Behav*, *57*, 38-41. <http://dx.doi.org/10.1016/j.addbeh.2016.01.015>
22. **Pang, R. D.**, Kirkpatrick, M. G., Goldenson, N. I.,\* Guillot, C. R., & Leventhal, A. M. (2016). Asians compared to Whites show increased response to d-amphetamine on select subjective and cardiovascular measures. *Pharmacol Biochem Behav*, *144*, 73-77. <http://dx.doi.org/10.1016/j.pbb.2016.03.003>
23. Bello, M. S.,\* **Pang, R. D.**, Chasson, G. S., Ray, L. A., & Leventhal, A. M. (2016). Obsessive-compulsive symptoms and negative affect during tobacco withdrawal in a non-clinical sample of African American smokers. *J Anxiety Disord*. <http://dx.doi.org/10.1016/j.janxdis.2016.10.001>
24. Bello, M. S.,\* **Pang, R. D.**, Cropsey, K. L., Zvolensky, M. J., Reitzel, L. R., Huh, J., & Leventhal, A. M. (2016). Tobacco Withdrawal Amongst African American, Hispanic, and White Smokers. *Nicotine Tob Res*, *18*, 1479-1487. <http://dx.doi.org/10.1093/ntr/ntv231>
25. Goldenson, N. I.,\* **Pang, R. D.**, & Leventhal, A. M. (2016). Associations between ADHD symptoms and smoking outcome expectancies in a non-clinical sample of daily cigarette smokers. *Am J Addict*, *25*, 152-159. <http://dx.doi.org/10.1111/ajad.12343>
26. Aguirre, C. G., Bello, M. S., Andrabi, N., **Pang, R. D.**, Hendricks, P. S., Bluthenthal, R. N., & Leventhal, A. M. (2016). Gender, Ethnicity, and Their Intersectionality in the Prediction of Smoking Outcome Expectancies in Regular Cigarette Smokers. *Behav Modif*, *40*, 281-302. <http://dx.doi.org/10.1177/0145445515608146>
27. Park, A. D.,\* Farrahi, L. N.,\* **Pang, R. D.**, Guillot, C. R., Aguirre, C. G., & Leventhal, A. M. (2016). Negative Urgency Is Associated With Heightened Negative Affect and Urge During Tobacco Abstinence in Regular Smokers. *J Stud Alcohol Drugs*, *77*, 766-773.

28. Sussman, S., Chou, C. P., **Pang, R. D.**, Kirkpatrick, M., Guillot, C. R., Stone, M., . . . Leventhal, A. M. (2016). Social Self-Control Is a Statistically Nonredundant Correlate of Adolescent Substance Use. *Subst Use Misuse*, 51, 788-794.  
<http://dx.doi.org/10.3109/10826084.2016.1141959>
29. Goldenson, N. I., Kirkpatrick, M. G., Barrington-Trimis, J. L., **Pang, R. D.**, McBeth, J. F., Pentz, M. A., . . . Leventhal, A. M. (2016). Effects of sweet flavorings and nicotine on the appeal and sensory properties of e-cigarettes among young adult vapers: Application of a novel methodology. *Drug Alcohol Depend*, 168, 176-180.  
<http://dx.doi.org/10.1016/j.drugalcdep.2016.09.014>
30. **Pang, R.D.**, Liautaud, M.M., Kirkpatrick, M.G., Huh, J., Monterosso, J., & Leventhal, A.M. (2017). Ovarian hormones and transdermal nicotine administration independently and synergistically suppress tobacco withdrawal symptoms and smoking reinstatement in the human laboratory. *Neuropsychopharmacology*. Advance online publication: doi: 10.1038/npp.2017.216
31. **Pang, R.D.**, Andrabi, N., & Leventhal, A.M. (2017). Premenstrual symptoms and factors implicated in smoking cessation among female smokers. *Experimental and Clinical Psychopharmacology*, 25(4):235-241.
32. **Pang, R.D.**, Guillot, C.R., Zvolensky, M.J., Bonn-Miller, M.O., & Leventhal, A.M. (2017). Associations between anxiety sensitivity and subjective effects of alcohol, cigarettes, and cannabis in adolescents. *Addictive Behaviors*, 73:192-198.
33. Liautaud, M. M., Leventhal, A. M., & **Pang, R. D.** (2017). Happiness as a buffer of the association between dependence and acute tobacco abstinence effects in African American smokers. *Nicotine & Tobacco Research*. Advance online publication: doi: 10.1093/ntr/ntx216
34. Guillot, C. R., Halliday, T. M., **Pang, R. D.**, Kirkpatrick, M. G., & Leventhal, A. M. (2017). Anhedonia and abstinence as predictors of the subjective pleasantness of positive, negative, and smoking-related pictures. *Nicotine & Tobacco Research*, 19, 743-749. Advance online publication. <https://doi.org/10.1093/ntr/ntx036>
35. Chuang, C.W.I., Sussman, S., Stone, M.D., **Pang, R.D.**, Chou, C.P., Leventhal, A.M., & Kirkpatrick, M.G. (2017). Impulsivity and history of behavioral addictions are associated with drug use in adolescents. *Addictive Behaviors*, 74:41-47.
36. Garey, L., Manning, K, Jardin, C., Leventhal, A. M., Stone, M., Raines, A. M., **Pang, R. D.**, Neighbors, C., Schmidt, N. B. & Zvolensky, M. J. (2017). Smoking consequences questionnaire: A reevaluation of the psychometric properties across two independent samples of smokers. *Psychological Assessment*. Advance online publication: doi: 10.1037/pas0000511

### **Invited Talk**

“Effects of loss of serotonin transporter in functional activation during an acute stressor”. Given at the 2011 Neuroscience Student Spring Symposium at the University of Southern California, Los Angeles, CA.

“Sex Differences in Smoking”. Given April 2015 at the Institute of Genetic Medicine Science Club at the University of Southern California, Los Angeles, CA.

“Affect Regulation and Smoking in Women”. Given August 2015 at 10<sup>th</sup> Drug Abuse Research Symposium at Charles R. Drew University of Medicine and Science, Los Angeles, CA.

### **Oral Presentations**

**Pang, RD** & Leventhal AM (2016). Premenstrual symptom severity and tobacco withdrawal, craving, and mood after overnight tobacco abstinence. Oral presentation at the annual meeting of the College on Problems of Drug Dependence. Palm Springs, CA.

Kirkpatrick, MG, **Pang, R**, Stone, M, & Leventhal, AM (2016). Social facilitation of alcohol effects predicts self-reported progression of use in adolescents. Oral presentation at the annual meeting of the College on Problems of Drug Dependence. Palm Springs, CA.

**Pang, RD**, Bello, MS, Stone, MD, Kirkpatrick, MG, Huh, J, Monterosso, J, . . . Leventhal, AM (2015). Premenstrual symptoms and smoking related expectancies. Oral presentation at the Tobacco Control, Research, and Education: Joining Forces to Address New Challenge. Sacramento, CA.

**Pang, RD**, Stone, M, Kirkpatrick, M, Huh, J, Monterosso, J, & Leventhal, AM (2015). Premenstrual symptoms associate with smoking withdrawal expectancies. Oral presentations at the annual meeting of the Society for Research on Nicotine and Tobacco. Philadelphia, PA.

Halliday, T, Guillot, CR, Kirkpatrick MG, **Pang, RD**, Leventhal, AM (2015). Anhedonia and abstinence as predictors of subjective attractiveness of appetitive, aversive, and smoking-related stimuli. Oral presentation at the annual meeting of the Society for Research on Nicotine and Tobacco, Philadelphia, PA.

### **Conference Presentations**

Guillot, CR, **Pang, RD**, Kirkpatrick, MG, & Leventhal, AM (2016). Anxiety sensitivity as a predictor of acute subjective effects of smoking in African Americans. Poster presented at the 78th annual meeting of The College on Problems of Drug Dependence, Palms Spring, CA.

Liautaud, ML, **Pang, RD**, & Leventhal, AM (2016). Subjective happiness moderates the effects of nicotine dependence on tobacco withdrawal in African American smokers. Poster presented at the 78th annual meeting of The College on Problems of Drug Dependence, Palms Spring, CA.

Bello MS, McBeth JF, **Pang, RD**, & Leventhal, AM (2016). OCD symptom severity and tobacco withdrawal symptomatology among African American smokers. Poster presented at the 78th annual meeting of The College on Problems of Drug Dependence, Palms Spring, CA.

**Pang, RD**, Guillot, CR, Zvolensky, MJ, Leventhal, AM (2016). Anxiety sensitivity and subjective effects of alcohol, cigarettes, and cannabis in adolescents. Poster presented at the 2016 Collaborative Perspectives on Addiction Meeting. San Diego, CA.

**Pang, RD**, Kirkpatrick, MG, Goldenson, NI, Guillot, CR, Leventhal, AM (2015). Age and gender effects on subjective drug effect of *d*-amphetamine. Poster presented at the annual scientific meeting of the College on Problems of Drug Dependence. Phoenix, AZ.

Guillot, CR, **Pang, RD**, Kirkpatrick, MG, & Leventhal, AM (2015). Negative affect mediates relations between anxiety sensitivity and substance use problems in adolescents. Poster presented at the 77th annual meeting of The College on Problems of Drug Dependence, Phoenix, AZ.

Bello, MS, **Pang, RD**, Cropsey, KL, Zvolensky, MJ, Reitzel, LR, Huh, J, Leventhal, AM (2015). Tobacco Withdrawal Amongst Black, Hispanic, and White Smokers. Poster presented at the 21st annual scientific meeting of the Society for Research on Nicotine and Tobacco. Philadelphia, PA.

Aguirre, CG, **Pang, RD**, Leventhal, AM (2015). Intersectionality of gender and race/ethnicity in the prediction of smoking outcome expectancies in regular cigarette smokers. Poster presented at the 20th annual meeting of the Society for Research on Nicotine and Tobacco, Philadelphia, PA.

Kirkpatrick, MG, Guillot, C, **Pang, RD**, Leventhal, AM (2015). Attentional bias predicts abstinence-induced cigarette craving in a laboratory setting. Poster presentation at the annual meeting of the Society for Research on Nicotine and Tobacco. Philadelphia, PA.

**Pang, R. D.**, Guillot, C. R., & Leventhal, A. M. (2014). Depression and anxiety symptoms moderate the relation between negative reinforcement smoking outcome expectancies and nicotine dependence. Poster presented at the 20th annual meeting of the Society for Research on Nicotine and Tobacco, Seattle, WA.

Guillot, C. R., **Pang, R. D.**, & Leventhal, A. M. (2014). Negative urgency mediates relations between anxiety sensitivity and negative reinforcement-related smoking outcome and abstinence expectancies. Poster presented at the 20th annual meeting of the Society for Research on Nicotine and Tobacco, Seattle, WA.

**Pang, R. D.**, Trujillo, M. A., & Leventhal, A. M. (2013). Gender differences in negative affect and smoking lapse behavior during acute tobacco withdrawal: A laboratory analogue study. Poster presented at the Society for Research on Nicotine and Tobacco Annual Meeting. Boston, MA.

Trujillo, M., Riggs, N., Unger, J., **Pang, R.D.**, Audrain-McGovern, J., & Leventhal, A. (2013). Anhedonic Depressive Symptoms Predicts Smoking Escalation in Adolescents Particularly Among Boys. Poster presented at the Society for Research on Nicotine and Tobacco Annual Meeting. Boston, MA.



Wang Z, Myers K, Guo Y, Ocampo MA, **Pang RD**, Jakowec MW, Holschneider DP (2012). Functional brain mapping and multimodal assessment of the neurerehabilitative effects of exercise on rat models of basal ganglia injury. Poster presented at Society for Neuroscience Meeting. New Orleans, LA.

Holschneider D.P., Wang Z, **Pang RD**, Maarek S, Bradesi S, Mayer EA. (2011). Functional Brain Activation during retrieval of visceral pain conditioned passive avoidance in the rat. Poster presented at Society for Neuroscience Meeting. Washington, DC

**Pang RD**, Klosinski L, Wang Z, Guo Y, Miller J, Holschneider DP (2010). Mapping functional brain activation in mice lacking the serotonin transporter. Poster presented at Society for Neuroscience Meeting. San Diego, CA.

Wang Z, **Pang R.D.**, Guo Y, Bradesi S, Mayer, E.A., Holschneider DP (2010). Functional brain mapping of visceral hypersensitivity induced by chronic water avoidance stress in rats. Poster presented at Society for Neuroscience Meeting. San Diego, CA.

Holschneider DP, **Pang R**, Hernandez M, Ocampo M, Guo Y, Donevan S, Wang Z. Anxiolytic effect of pregabalin on ultrasonic vocalization of rats after acute foot shock and during recall of fear.

### **Mentoring**

|   |              |
|---|--------------|
| Madalyn Liautaud, Post Bachaccalauraate, USC              | 2015-Present |
| Nicholas Goldenson, PhD Student, Preventive Medicine, USC | 2014-Present |
| Matthew Stone, Post Bachaccalauraate, USC                 | 2015-Present |
| Annie Park, Undergraduate, USC                            | 2014-Present |
| Claudia Aguirre, Post Bachaccalauraate, USC               | 2014-Present |
| Rubin Khodam, PhD student in Psychology, USC              | 2013-Present |
| Mariel Bello, Post Bachaccalauraate, USC                  | 2013-Present |
| Layla Farrahi, Undergraduate, USC                         | 2013-Present |
| Shannon Glazier, Post Bachaccalauraate, USC               | 2013-2014    |
| Bree Geary, Masters student in Public Health, USC         | 2012-2015    |
| Marianne Hom, Medical student, USC                        | 2012         |
| Hilary Lazarus, Undergraduate, USC                        | 2011         |
| Lauren Klosinski, Undergraduate, USC                      | 2008-2010    |

### **Community Service**

|   |             |
|---|-------------|
| <b>Tutor, IMPACTO, Boyle Height, CA</b>           | 2012 – 2013 |
| Tutored K-12 students                             |             |
| <b>Tutor, John Serbu Youth Campus, Eugene, OR</b> | 2006        |
| Tutored incarcerated youth (ages 12-18)           |             |

### **Professional Service**

|   |                                 |
|---|---------------------------------|
| <b>Member, Student Spring Symposium Committee</b><br><i>University of Southern California</i> | January 2010<br>Los Angeles, CA |
|---|---------------------------------|

### **Professional Society Memberships**

|   |              |
|---|--------------|
| Society for Research on Nicotine and Tobacco (SRNT) | 2013-Present |
| American Women in Science (AWIS)                    | 2013-2015    |
| Society for Neuroscience                            | 2010-2011    |

### **Journal Reviews**

*Nicotine and Tobacco Research, Addictive Behaviors, Psychology of Addictive Behaviors, PLOS ONE, Drug and Alcohol Dependence, Journal of Addiction Medicine, Neuropsychopharmacology, Tobacco Induced Diseases, Alcohol and Alcoholism, Psychological Assessment, BMC Public Health, Evaluation & the Health Professions, Journal of Abnormal Child Psychology, Patient Preference and Adherence, North American Journal of Medical Science*

### **Abstract Reviews**

|           |   |
|-----------|---|
| 2016-2017 | APA Convention – Division 50  |
| 2017      | Society for Research on Nicotine and Tobacco (SRNT) annual conference |

### **Grant Reviews**

|      |                          |
|------|--------------------------|
| 2016 | TCORS Pilot Grant Review |
| 2016 | Dean's Pilot Award       |
| 2016 | CTSI Pilot Award         |

### **Awards and Honors**

|           |   |
|-----------|---|
| 2017      | Editorial Fellowship, <i>Experimental and Clinical Psychopharmacology</i>   |
| 2016      | Top 5% of Reviewers, <i>Drug and Alcohol Dependence</i>   |
| 2015      | SRNT Trainee Spotlight  |
| 2008      | National Science Foundation Graduate Research Fellowship Program (GRFP) honorable mention   |
| 2007-2008 | Recipient of \$25,000 USC Neuroscience Graduate Program Provost Fellowship Award  |
| 2003-2007 | Recipient of \$2000/year higher education scholarship from the Choctaw Nation of Oklahoma   |
| 2003-2004 | Recipient of the Western Undergraduate Exchange Scholarship, which reduces out of state tuition at participating universities to 150% of instate tuition. |