

Srimal Aminda Samaranayake, BSc

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Department of Chemistry & Biochemistry
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EDUCATION/ TRAINING

2015 – Present	University of South Carolina <i>Department of Chemistry & Biochemistry</i>	Graduate Student
2012 – 2015	Wayne State University <i>Department of Chemistry</i>	Graduate Student
2006 – 2010	University of Peradeniya, Sri Lanka <i>Department of Chemistry</i>	BSc Chemistry

RESEARCH INTERESTS

- *In vivo* electrochemical detection of ambient and evoked serotonin, histamine and dopamine.
- Coregulation of serotonin and histamine *in vivo* during neurodegeneration.
- Dopamine measurements addressing individual differences in fixed ratio paradigms.

HONORS

2016	Best Oral Presentation Award, 2 nd Annual Neuroscience Retreat, University of South Carolina
2015 & 2016	Graduate School Travel Award, Graduate School, University of South Carolina
2015	Hoechst Graduate Fellowship, Department of Chemistry & Biochemistry, University of South Carolina
2014	Best Poster Presentation Award, 5 th Annual Wayne State Graduate Symposium
2013	ANACHEM Seminar Best Oral Presentation Award, ANACHEM/SAS Detroit Session Symposium
2013-2014	Thomas Rumble Graduate Fellowship, Wayne State University

PUBLICATIONS

In Preparation

1. Abdalla A, Atcherley C. W, Pathirathna P, **Samaranayake S**, Heien M. L, Hashemi P, “In Vivo Ambient Serotonin Measurements at Carbon-fiber Microelectrodes”
2. Robert S. R. Jr, **Samaranayake S**, Hashemi P, Harrod S, Li H, Mactutus C. F, Booze R. M, “Decreased Real-time Dopamine Release in the Nucleus Accumbens of HIV-Tg Rats: Gender and Phasic Effects”
3. O'Donovan B, Adeluyi A, Galloway A, **Samaranayake S**, Turner J. R, Hashemi P, Ortinski P.I, “Neuronal correlates of motivational sensitivity to natural and drug rewards”
4. **Samaranayake S**, Hashemi P, “Experimental and Mathematical Evidence for SERT Mediated Histamine Reuptake”
5. **Samaranayake S**, Berger S. N, Hashemi P, “A Functional Model of Serotonin and Histamine Coregulation In Vivo”

In Press/ Published

6. **Samaranayake S**, Abdalla A, Robke R, Nijhout H.F, Reed M.C, Best J, Hashemi P, A Voltammetric and Mathematical Analysis of Histaminergic Modulation of Serotonin in the Mouse Hypothalamus, *J Neurochem.* **2016**, 138(03):374-383.

7. **Samaranayake S.** Abdalla A. Robke R. Wood K. M. Zeqja A. Hashemi P. In vivo histamine voltammetry in the mouse premammillary nucleus. *Analyst.* **2015**, *140*, 3759. **(Front Cover)**
8. Pathirathna P, **Samaranayake S.**, Atcherley C.W, Parent K.L, Heien M.L, McElmurry S.P, et al. Fast voltammetry of metals at carbon-fiber microelectrodes: copper adsorption onto activated carbon aids rapid electrochemical analysis. *Analyst.* **2014**;139(18):4673-80.

TEACHING

2016	CHM112 L	General Chemistry II Lab, University of South Carolina
2015	CHM111 L	General Chemistry I Lab, University of South Carolina
2013-2015	CHM2290	Analytical Chemistry Lab, Wayne State University
2012	CHM1230	General Chemistry I Lab, Wayne State University

CURRENT RESEARCH COLLABORATIONS

2015 –Present	Prof. Rosemary Booze <i>Department of Psychology, University of South Carolina</i> Monoamine alterations accompanying HIV-induced neurodegeneration
2015 - Present	Dr. Pavel Ortinski <i>School of Medicine, University of South Carolina</i> Dopamine measurements in fixed ratio paradigms
2014 – Present	Prof. Janet Best <i>Department of Mathematics, The Ohio State University</i> Mathematical modeling of experimental data
2014 – Present	Prof. Michael Reed <i>Department of Mathematics, Duke University</i> Mathematical modeling of experimental data
2014 – Present	Prof. H. Fred Nijhout <i>Department of Mathematics, Duke University</i> Mathematical modeling of experimental data
2012 – Present	Prof. Michael Heien <i>Department of Chemistry, University of Arizona</i> Ambient neurotransmitter levels

SEMINARS

Oral Presentations

2017	PITTCON Conference and Expo, Chicago
2016	SERMACS Conference, Columbia (served as a judge for undergraduate posters)
2016	2 nd Annual Neuroscience Retreat, University of South Carolina
2016	PITTCON Conference and Expo, Atlanta
2015	PITTCON Conference and Expo, New Orleans
2014	ANACHEM/SAS Detroit session symposium
2014	PITTCON Conference and Expo, Chicago
2013	ANACHEM/SAS Detroit session symposium

Poster Presentations

2015	Annual Chemistry Graduate Symposium, University of South Carolina
2014	16 th Annual Chemistry Graduate Symposium, Wayne State University
2014	5 th Annual Wayne State Graduate Symposium, Wayne State University
2013	15 th Annual Chemistry Graduate Symposium, Wayne State University

PROFESSIONAL AFFILIATIONS

- 2016-Present Member of the American Chemical Society
 2016-Present Member of Society for Electroanalytical Chemistry (SEAC)

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PERSONAL REFERENCES

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