

SARA J. FLOOD, PH.D.

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sara.flood@uvu.edu

EDUCATION

| | | |
|-------------------|---|------|
| Ph.D. | Doctor of Philosophy <u>The University of Western Australia, WA, Australia</u> <ul style="list-style-type: none">School of Anatomy, Physiology and Human BiologyThesis - Forensic Odontology: An analysis of the developing dentition using radiographic orthopantomograms for forensic age estimation in sub-adult individuals. | 2012 |
| MForSci. | Master of Forensic Science <u>The University of Western Australia, WA, Australia</u> <ul style="list-style-type: none">Centre for Forensic Science and School of Anatomy, Physiology and Human Biology | 2007 |
| BSc., Hons | Bachelor of Science Honors <u>The University of Guelph</u> Ontario, Canada. <ul style="list-style-type: none">College of Biological Science | 2002 |

PROFESSIONAL APPOINTMENTS

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|---|----------------|
| Associate Professor – Utah Valley University, Orem, Utah, U.S.A. | 2018 - present |
| Assistant Professor – Utah Valley University, Orem, Utah, U.S.A. | 2015 – present |
| Assistant Professor – The University of Western Australia, WA, Australia. | 2012-2015 |
| <ul style="list-style-type: none">Program development for the Advanced Diploma in Medical and Aboriginal Health SciencesProgram Coordinator for the Aboriginal Orientation ProgramDemonstrated an outstanding personal contribution and commitment to high quality teaching and learning in the areas of gross anatomy, medical physiology and human biologyProvided academic leadership in teaching medical and dental studentsMaintained a supportive and mentoring environment for Indigenous studentsA record of demonstrable peer-reviewed publications and professional achievement in Forensic Odontology | |

Roles included at The University of Western Australia:

- Curriculum developer for the Advanced Diploma in Medical and Aboriginal Health Sciences which comprised 8 courses per year; Course coordinator for the Aboriginal Orientation Program (a year-long bridging program that provides Indigenous students an alternative pathway into university) and University Smart Start Program (satellite campus).
- Designed and implemented a brand new one-year bridging program at the Centre for Aboriginal Medical and Dental Health (Faculty of Medicine, Dentistry and Health Sciences) designed for Indigenous students wanting entry into the MD program.

- Provided leadership in curriculum development, design of courses, and innovations in the delivery of teaching in the pre-medical and medical program.
- Reviewed faculty syllabi and textbooks, ensured course objectives coincided with learning outcomes listed in the university handbook, organized faculty pay, hired adjunct faculty, conducted entrance interviews for potential students, ensured overall compliance with university policies and procedures.

Human prosector

2008-2011

Acquired the skills necessary for the dissection of human cadavers. Highlighted the anatomical features and structures of interest for the purposes of medical and dental education.

TEACHING EXPERIENCE

Utah Valley University

- Forensic Anthropology (BIOL 490R) – Department of Biology; Utah Valley University. Lecturer (Fall 2019; Spring 2020).
- Odontology II Research (BIOL 490R) – Department of Biology; Utah Valley University. Lecturer (Spring 2019).
- Odontology Research (BIOL 490R) – Department of Biology; Utah Valley University. Lecturer (Summer 2018; Fall 2018).
- Odontology I Research (BIOL 490R) – Department of Biology; Utah Valley University. Lecturer (Spring 2018).
- Biology Internship (BIOL 481R) – Department of Biology; Utah Valley University. Lecturer (Spring 2017; Summer 2017; Fall 2017; Spring 2018; Spring 2019).
- Student Research (BIOL 489R) – Department of Biology; Utah Valley University. Lecturer (Fall 2016; Spring 2017; Summer 2017; Fall 2017; Spring 2018).
- Student Seminar (BIOL 494R) – Department of Biology; Utah Valley University. Lecturer (Spring 2016 & 2017).
- Human Anatomy (ZOO 2320) - Department of Biology; Utah Valley University. Lecturer (Spring 2016; Fall 2016; Spring 2017; Summer 2017; Fall 2017; Spring 2018; Fall 2018; Spring 2019; Summer 2019; Fall 2019; Spring 2020).
- Human Anatomy Honors (ZOO 232H) – Department of Biology; Utah Valley University. Lecturer (Fall 2019).
- Human Anatomy Lab (ZOO 2325) - Department of Biology; Utah Valley University. Lab Instructor (Fall 2015; Spring 2016; Fall 2016).
- Human Physiology (ZOO 2420) - Department of Biology; Utah Valley University. Lecturer (Fall 2015 & Summer 2017).

The University of Western Australia

- Advanced Human Biological Sciences II (AHEA2204) - Centre for Aboriginal Medical and Dental Health, Faculty of Medicine; The University of Western Australia. Lecturer (2014).
- Introduction to Human Biological Sciences I (AHEA1103) - Centre for Aboriginal Medical and Dental Health, Faculty of Medicine; The University of Western Australia. Lecturer (2014).
- Introduction to Human Biological Sciences II (AHEA1104) - Centre for Aboriginal Medical and Dental Health, Faculty of Medicine; The University of Western Australia. Lecturer (2014).
- Human Biology II (ANHB0035) - School of Indigenous Studies; The University of Western Australia. Lecturer (2012 & 2014).
- Human Biology I (ANHB0034) - School of Indigenous Studies; The University of Western Australia. Lecturer (2012 & 2013)
- Chemistry I (CHEM0036) - School of Indigenous Studies; The University of Western Australia. Lecturer (2012).
- Human Functional Morphology (ANHB3304) - School of Anatomy, Physiology and Human Biology; The University of Western Australia. Lab Instructor (2011).
- Human Functional Anatomy (ANHB2213) - School of Anatomy, Physiology and Human Biology; The University of Western Australia. Lab Instructor (2011).
- Pre-Medicine Summer Course (IMED0090) - Centre for Aboriginal Medicine and Dental Health, Faculty of Medicine; The University of Western Australia. Lecturer (Summer 2011).
- Human Biology II: Being Human (ANHB1102) - School of Anatomy, Physiology and Human Biology; The University of Western Australia. Lecturer and Lab Instructor (2008 - 2011).
- Human Structure and Development (ANHB2212) - School of Anatomy, Physiology and Human Biology; The University of Western Australia. Lecturer and Lab Instructor (2008 - 2011).
- Human Biology I: Becoming Human (ANHB1101) - School of Anatomy, Physiology and Human Biology; The University of Western Australia. Lab Instructor (2008 - 2011).
- Anatomy for Dental Students (IDNT2223) - School of Anatomy, Physiology and Human Biology/Faculty of Dentistry; The University of Western Australia. Lab Instructor (2008).
- Molecules, Genes and Cells (IMED1114) - School of Chemistry and Biochemistry/Faculty of Medicine; The University of Western Australia. Lab Instructor (2007 - 2009).
- Normal Systems (IMED1100) - School of Chemistry and Biochemistry/Faculty of Medicine; The University of Western Australia. Lab Instructor (2007 - 2009).

- Biological Anthropology (ANHB3311) - School of Anatomy, Physiology and Human Biology; The University of Western Australia. Lab Instructor (2007 & 2009).
- Forensic Anthropology (FNESC8612) - Centre for Forensic Science; The University of Western Australia. Lab Instructor (2006).

UNDERGRADUATE RESEARCH STUDENTS MENTORED AT UTAH VALLEY UNIVERSITY

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|--------------------|------------------|-------------------|
| Benjamin Bartlett | Stayner Richards | Michael Stroud |
| Emily Irwin | Claudia Charles | Brady Smith |
| Brayden Mollner | Colton Utley | Jeremy Adams |
| Skylar Larsen | Marshall Walker | Joshua Knapton |
| Robert Blandon | Jake Krebs | Deric Searle |
| Chris Acker | Dallen Johnson | McKenzie Thompson |
| Cassandra Gonzalez | Kenneth Milne | Brian Brimhall |
| Brittany Bay | Samuel Cassani | Ammon Allphin |
| Hannah Christensen | Hunter Crockett | Brooks Hunsager |
| Wyatt Knectel | Michael Lacerda | Spencer Monson |
| Kenzie Peay | Judd Williams | Caleb Madsen |

AWARDS AND GRANTS

- 2017 – Scholarly Activities Committee (SAC) Grant, Utah Valley University (\$7,180)
- 2017 - Undergraduate Research Scholarly and Creative Activities (URSCA), Utah Valley University (\$3,000)
- 2016 - Scholarly Activities Committee (SAC) Grant, Utah Valley University (\$7,180)
- 2012 - Australian Postgraduate Award (APA) (\$23,728)
- 2012 – The University of Western Australia Safety Net Top-Up Scholarship (\$3,500)
- 2011 – Australian Postgraduate Award (APA) (\$23,728)
- 2011 – The University of Western Australia Safety Net Top-Up Award (\$3,500)
- 2010 – University Postgraduate Award (UPA) (\$22,860)
- 2010 – The University of Western Australia Safety Net Top-Up Scholarship (\$3,500)
- 2007 - Australasian Society for Human Biology Postgraduate Travel Scholarship (\$700)

CONFERENCE PROCEEDINGS

- Irwin, E., Mollner, B., Flood, S.J., Kruger, E., Tennant, M. The distribution of private practice dentists in Utah: A high resolution GIS analysis. Utah Conference on Undergraduate Research (UCUR). Utah Valley University. Spring 2017. **[Poster presentation]**

- Irwin, E., Mollner, B., Flood, S.J., Mitchell, W., Tennant, M. Does the distribution of private dentists in Utah, USA match population need? A high resolution GIS analysis. Biology Colloquium. Utah Valley University. Spring 2017. **[Oral presentation]**
- Irwin, E., Mollner, B., Flood, S.J., Mitchell, W., Tennant, M. Does the distribution of private dentists in Utah, USA match population need? A high resolution GIS analysis. Utah Academy of Sciences, Arts and Letters. Utah Valley University. Spring 2017. **[Oral presentation]**
- Flood, S.J., Mitchell, W.J., Franklin, D., Turlach, B.A., Tennant, M., McGeachie, J. The Utility of Smaller Sample Sizes in Forensic Odontology for Age Estimation. 22nd Annual Combined Biological Sciences Meeting. The University of Western Australia. August 2012. **[Poster presentation]**
- Classroom to Courtroom. Proceedings of the 18th International Symposium on the Forensic Sciences, Australian and New Zealand Forensic Science Society. Fremantle, Western Australia. April 2006. **[Conference Facilitator]**
- Flood, S., Franklin, D., Oxnard, C.E., Meyer, J., Dadour, I. Dental development in Western Australian sub adults. Human Biology: Understanding the Past to Inform the Future. Proceedings of The Australasian Society for Human Biology 20th Annual Conference. Royal Melbourne Institute of Technology University (RMIT). December 2006. **[Oral Presentation]**

PEER-REVIEWED PUBLICATIONS

Flood, S.J., Franklin, D., Turlach, B.A., McGeachie, J. (2013) A comparison of Demirjian's four dental development methods for forensic age estimation in South Australian sub-adults. *Journal of Forensic and Legal Medicine*. 20, 875-883. <http://www.ncbi.nlm.nih.gov/pubmed/24112340>

Flood, S.J., Mitchell, W., Oxnard, C.E., Turlach, B.A., McGeachie, J. (2011) A comparison of Demirjian's four dental development methods for forensic age assessment. *Journal of Forensic Sciences*, 56(6), 1610-1615. <http://www.ncbi.nlm.nih.gov/pubmed/21854378>

Flood, S.J., Mitchell, W., Oxnard, C.E., Turlach, B.A., McGeachie, J. (2011) To evaluate the utility of smaller sample sizes when assessing dental maturity curves for forensic age estimation. *Journal of Forensic Sciences*, 56(6), 1604-1609. <http://www.ncbi.nlm.nih.gov/pubmed/21854379>

Flood, S., Franklin, D., Oxnard, C.E., Meyer, J., Dadour, I. (2006). Dental development in Western Australian sub adults. *HOMO – Journal of Comparative Human Biology*, 58, 246-247. [Published Abstract]

In Preparation and Review

Irwin, E., Mollner, B., Flood, S.J., Mitchell, W., Kruger, E., Tennant, M. Does the distribution of private dentists in Utah, USA match population need? A high resolution GIS analysis.

Mollner, B., Blandon, R., Knapton, J., Flood, S.J., Kruger, E., Tennant, M. High resolution mapping of reticulated water fluoride in Utah: opportunities to improve oral health.

Larsen, S., Charles, C., Walker, M., Flood, S.J., Kruger, E., Tennant, M. Indian Health Services: lack of medical care and availability for Native Americans.

SERVICE

To the University

Committee Member for Utah Valley University search committee for
College of Science Anatomy Lecturer (Spring 2020)
Faculty Senator for Utah Valley University Senate (2016 to 2019)
Alternate Utah Valley University IRB committee member (2016 to 2018)
Committee Member for Utah Valley University search committee for College of Science & Health Lecturer (Summer 2016)
Committee Member for Utah Valley University search committee for College of Science & Health Physiology Lab
Lecturer (March 2017)
Mentor to the Pre-dentistry club at Utah Valley University (2016 to present)
Committee Member for Teaching and Learning Board at The University of Western Australia (2012-2014)
Master of Ceremonies, Coordinator and Planner for The University of Western Australia Indigenous Graduation
Ceremony (2012-2014)
Master of Ceremonies, Coordinator and Planner for The University of Western Australia Centre for Aboriginal
Medicine and Dental Health Graduation (2012-2014)

College and Department

Utah Conference on Undergraduate Research (UCUR) – February 2017
Utah Valley University Dean's Day – October 2016
UVYou Day at Utah Valley University – November 2015
The University of Western Australia Sports Day – May 2012-2014

To the Profession

Utah Valley University

- North American Hub Leader for the International Research Collaborative – Oral Health and Equity (2016 to present)
<http://www.aphb.uwa.edu.au/community/IRC-OHE>
- Editor for Biomedical Research and Public Health (2017 to present)
<http://opusjournals.com/journals/biomedical-research-public-health>
- Editor for Human Anatomy Open Access Journal (2016 to present)
<https://medwinpublishers.com/HAOAJ/editorial-board.php>
- Periodic reviewer for European Journal of Forensic Sciences
- Periodic reviewer for Medical Research Archives

The University of Western Australia

- Periodic reviewer for European Journal of Paediatric Dentistry (2012-2014)
- Periodic reviewer for Archives of Oral Biology (2012-2014)