Dr. Samer Assaf

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ACADEMIC CREDENTIALS

- **Ph.D. in Mathematics** 2013-2016
  University of Saskatchewan-Canada

- **Masters in Pure Mathematics** 2006-2010
  Notre Dame University-Lebanon

- **Teaching Diploma in Pure Mathematics** 2000-2005
  Lebanese University –Lebanon

CURRENT POSITION

American University of Kuwait

Assistant Professor of Mathematics 2017-Present

RESEARCH INTERESTS

- Generalization of metrics to include a wider class of functions.
- Studying the topological structure of those metrics.
- Graph Theory and their topological properties.
- Checking for practical applications and possible algorithmic interpretation.

PUBLICATIONS

- Samer Assaf, Tom Cuchta, and Matt Insall, **Binary Metrics,** Topology and Its applications (2020), Volume 274.
  https://doi.org/10.1016/j.topol.2020.107116

- Samer Assaf, **On M-Metric Spaces and Fixed Point Theorems**, Top. Proc. 54 (2019) pp. 81-102.
  http://topology.auburn.edu/tp/reprints/v54/tp54005p1.pdf

- Samer Assaf and Koushik Pal, **Partial metric spaces with negative distances and fixed point theorems**, Top. Proc. 49 (2017) pp. 19-40.
  http://topology.auburn.edu/tp/reprints/v49/tp49003p1.pdf

- Samer Assaf, Tom Cuchta, and Matt Insall, **Generalized Measure Chains.** (In Progress)

- Samer Assaf and Koushik Pal. **Partial n-metric spaces and fixed point theorems**. (In Progress)
  http://arxiv.org/abs/1502.05320

- Thesis: Generalized Metrics.
  http://arxiv.org/abs/1603.01246

CONFERENCE AND PRESENTATION

- **Talk at the Missouri University of Science and Technology**   February 2020
  Invited to give a talk on Generalized Metrics.

- **53rd Spring Topology and Dynamical Systems Conference**   March 2019
  Gave a talk at the special sessions in Generalized Metrics.

- **52nd Spring Topology and Dynamical Systems Conference**   March 2018
  Gave a talk at the special sessions in Generalized Metrics.

- **50th Spring Topology and Dynamical Systems Conference**   March 2016
  Gave a talk at the special sessions in Generalized Metrics.

- **49th Spring Topology and Dynamics Conference 2015.**   May 2015
  Gave a talk at the special sessions in Generalized Metrics.

- **Science and Mathematics Education Conference 9**   November 2005
  Attended.

- **School of Algebraic Geometry and Arithmetic Curves**   September 2004
  Attended.

UNIVERSITY SERVICE

- **Member of the University's Curriculum Development and Assessment Committee (Current)**
  Assessing the opening of new courses and modifications to existing ones.

- **Head of the Mathematics Committee (Previous)**
  Revising the curriculum and amending its mapping to suit different majors.

- **Placement Exam Assessment (Previous)**
  The Mathematics and Natural Sciences head of department entrusted me to assess our Student Placement Mathematics Test and suggest changes. Those changes led to a total overhaul of the methodology used.

- **Member of the College Assessment Committee (Previous)**
  Revising the course assessment forms.

- **Member of the Library Committee (Previous)**
  Making sure the library has the proper resources for students and faculty.

TEACHING EXPERIENCE

Assistant Professor of Mathematics at the American University of Kuwait: 2017-Present

MATH338: Topology

MATH213: Discrete Mathematics

MATH210: Differential Equations

MATH203: Calculus II

MATH201: Calculus I

MATH110: Precalculus

MATH103: Mathematics for Business

MATH095: Preparatory Mathematics

MATH100: College Algebra

STAT201: Statistics

Teaching Assistant at the University of Saskatchewan-Canada: 2013-2016

MATH 258: Euclidian Geometry

MATH 224: Calculus IV for Engineers

MATH 223: Calculus III for Engineers

MATH 124: Calculus II for Engineers

MATH 123: Calculus I for Engineers

MATH 116: Calculus I

Math Teacher at Gleneg School of Abu Dhabi-United Arab Emirates: 2010-2013

Courses taught include: Algebra I, Algebra II, Geometry and Pre-Calculus according to the American curriculum.

Math Instructor at Notre Dame University-Lebanon: 2009-2010

MAT 204: Calculus I

MAT 105: Remedial Algebra

Math Teacher at Jesus and Mary School-Lebanon: 2007-2009

Taught math to grades 8, 9, 10 and 11 according to the Lebanese curriculum.

Math Teacher at Sabis International School-Lebanon: 2006-2007

Taught math to grades 8, 9 and 10 according to a curriculum adapted from the British curriculum.

Math Teacher at Adma International School-Lebanon: 2005-2006

Taught math to grades 8, 11, and 12 according to the American curriculum.

SKILLS AND CAPABILITIES

- Strong communication skills: The ability to excel as a member of a team, overcome perspective differences and generate a problem solving attitude.

- Excellent time management and organizational skills: I finished my Ph.D. in less than three years, an impossible task without the skills mentioned herein.

- Innovative and creative: A key element for any researcher is the ability to think outside the box, and ask the right questions that few have thought of asking.

- Enthusiastic and perseverant yet understands the importance of patience: A cornerstone for any successful teacher.

- Great classroom management skills: Creating a learning environment is a crucial component for an accomplished teacher.

- Self-motivated: My accomplishments and credentials provide ample examples.

- Computer literate: Latex coding, Microsoft programs are a must for today's researchers.

LANGUAGES

- Fully fluent in English
- Native speaker in Arabic
- Can speak and read with relative fluency in French and intermediate writing skills.

HONORS AND GRANTS

- Professional Development Grant to give a talk at the 53nd Spring Topology and Dynamical Systems Conference.

- Professional Development Grant to give a talk at the 52nd Spring Topology and Dynamical Systems Conference.

- Received the Dean's Scholarship for the extent of my Ph. D. program at the University of Saskatchewan-Canada.

REFERENCES

- **Professor Federico Velez** Fvelez@auk.edu.kw
  Associate Professor of Communication at AUK and the Director of the General Education and First Year Experience
- **Professor Mohammad Abdullah** Mabdallah@auk.edu.kw
  Assistant Professor of Mathematics at AUK and a member of the Mathematics Committee
- **Professor Michael Aristidou** Maristidou@taum.edu
  Associate Professor of Mathematics at Texas A&M and a former Colleague at AUK
- **Ronal McNeill** rbmcneill52@yahoo.com
  Retired Director of Human Resources at AUK, he played a crucial part in my hiring process and university integration

Thank you for keeping this curriculum vita confidential.