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Academic website
educ.jmu.edu/~taalmala

Thingiverse designs
thingiverse.com/mathgrrl

MakerHome blog
makerhome.blogspot.com

3-SPACE classroom
geekhaus.com/3space

JMU MakerLab blog
jmumakerlab.blogspot.com

Laura Taalman
Mathematician and 3D-printing educator

About me I am a math professor at James Madison University who has opened two 3D-printing facilities and taught three classes on 3D printing. This fall I will serve as the Mathematician-in-Residence at MoMath, the National Museum of Mathematics.

Work Experience and Education

3D Printing Educator, 2013-present - James Madison University
- Director of JMU 3-SPACE, a general education 3D-printing college classroom containing a dozen 3D printers and a Digitizer.
- Director of the JMU MakerLab in Math/Stat, supervising thirteen student lab assistants and four 3D printers.
- Instructor for three classes on introductory 3D printing, with three more classes scheduled for the spring.
- Organizer of 3D printing events, presentations, and demonstrations for K-12 students, universities, and conferences.
- Creator of over 130 designs with 40,000 downloads at Thingiverse.
- Blogger at my instructional 3D-printing blog MakerHome, teaching beginners to make 3D models using freeware.

Professor of Mathematics, 2000-present - James Madison University
- Tenured in 2006, Full Professor rank in 2011.
- Researcher in knot theory, singular algebraic geometry, and puzzles.
- Teacher of mathematics from college algebra to algebraic topology.
- Author of two published Calculus textbooks and seven Sudoku books.
- Organizer of fourteen conferences with 150-350 attendees each.
- Invited keynote speaker at over forty conferences and schools.

Ph.D. in Mathematics, 1994-2000 - Duke University

B.S. in Mathematics, 1990-1994 - University of Chicago

Skills

3D Printing Hardware
○ Replicator 2	○ Afinia H-Series	○ CubeX Trio
○ MakerBot Digitizer	○ PrintrBot Jr.	○ Setup and repairs

3D Modeling Tools
○ OpenSCAD	○ 123D Design	○ TopMod
○ MeshLab	○ Illustrator	○ Mathematica
○ Sketchup	○ Inkscape	○ MATLAB
○ Tinkercad	○ MakerWare profiles	○ Minecraft

Presentation Tools
○ LaTeX	○ Pages	○ SketchBook
○ Keynote	○ ScreenFlow	○ Wacom Tablet

Strengths
○ creative	○ detail oriented	○ experienced speaker
○ fast learner	○ organized	○ can lead teams
○ multitasker	○ clear writer	○ can work in teams