

# Kelsi Listman

klistman@gmu.edu  
(703) 472-6076

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<b>EDUCATION</b>	<b>George Mason University</b> <i>Mathematics Doctoral Program</i> Advisor Dr. Yiannis Loizides	<b>Jan 2023 - Present</b>
	<b>George Mason University</b> <i>Master of Science in Mathematics</i>	<b>May 2025</b>
	<b>Bridgewater College</b> <i>Bachelor of Arts in Mathematics</i> <i>Bachelor of Science in Psychology</i> <i>Minor in Neuroscience</i> Graduated Summa Cum Laude and in Flory Honors Program	<b>May 2022</b>
<b>EXPERIENCE</b>	<b>Graduate Teaching Assistant</b> College of Science, George Mason University Teaching differential equations recitations to undergraduate students, holding office hours, grading	<b>Jan 2023 - Dec 2024</b>
	<b>Graduate Student Seminar Organizer</b> Student Research Talks (StReeTs), George Mason University Co-running a seminar for graduate students and advanced undergraduate students to present their research in mathematics	<b>Aug 2024 - Present</b>
	<b>Math Camp Leader &amp; Director</b> Mason Math Odyssey Camp, George Mason University Presenting mathematics outside of the typical academic curriculum to middle-school aged children, organizing logistics and supervising camp counselors	<b>July 2024, 2025</b>
	<b>Mathematics Tutor</b> Independent; Bridgewater College Math Center; GMU Math Tutoring Center Tutoring various levels of mathematics, from elementary-school to calculus and differential equations; working as an independent tutor and collaboratively within math tutoring centers	<b>Nov 2017 - Present</b>
	<b>Grid cells and their arrangements</b> Dr. Rebecca R.G., Dr. Holger Dannenberg & Dr. Giorgio Ascoli, George Mason University Existing research shows that the firing fields of grid cells (a type of neuron involved in spatial navigation) are arranged in a hexagonal lattice. This research involves classifying valid labelings of the lattice based on the number of distinct grid cells. <ul style="list-style-type: none"><li>Research presented at StReeTs seminar</li></ul>	<b>May 2025 - Present</b>  <b>Feb 2026</b>
<b>An integral over continuous paths in <math>S^1</math></b> Dr. Yiannis Loizides, George Mason University The goal of this research was to calculate a specific integral, as it has applications in representation theory. This project involved exploring integration over the path space on $S^1$ , the Riemann-Stieltjes integral, and Wiener measure in the path space on $\mathbb{R}$ . The (measure theoretic) Disintegration Theorem and a consequence of the Cameron-Martin formula were used to evaluate this integral with certain restrictions. <ul style="list-style-type: none"><li>Research presented at StReeTs seminar</li></ul>	<b>May - June 2024</b>  <b>Mar 2025</b>	