

# Hui Shen

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<b>Contact Information</b>	McGill University, Department of Mathematics and Statistics Room 1216, Burnside Hall, 805 Sherbrooke Street West, Montreal, Quebec H3A 0B9 <i>Email:</i> <a href="mailto:hui.shen2@mcgill.ca">hui.shen2@mcgill.ca</a>	
<b>Employee History</b>	<b>Postdoctoral Researcher</b> McGill University, Department of Mathematics and Statistics <i>Montreal, Quebec</i> Advisors: <a href="#">Eric D. Kolaczyk</a> Research direction: uncertainty quantification in networks	<b>Sep 2023 - Present</b>
<b>Education</b>	<b>The University of North Carolina</b> <i>Chapel Hill, North Carolina</i> <b>Ph.D.</b> Statistics Advisors: <a href="#">Yufeng Liu</a> , <a href="#">Shankar Bhamidi</a> Thesis Title: Consistency of Statistical Learning Techniques: Unsupervised Learning and Network Change Point	<b>Aug 2023</b>
	<b>Shanghai University of Finance and Economics</b> <i>Shanghai, China</i> <b>B.S.</b> Statistics Advisors: <a href="#">Xingdong Feng</a>	<b>June 2018</b>
<b>Research Interests</b>	Network analysis, Change point detection, Statistical machine learning, Graph representation learning, Dimension Reduction.	
<b>Papers</b>	<p><b><u>Published</u></b></p> <p>1 <b>Shen, H.</b>, Bhamidi, S., and Liu, Y. “Statistical Significance of Clustering with Multidimensional Scaling.” (Accept at <i>Journal of Computational and Graphical Statistics</i>)</p> <p><b><u>Preprint</u></b></p> <p>1 <b>Shen, H.*</b>, Patel, D.*, Bhamidi, S., Liu, Y., and Pipiras, V. “Consistency of Lloyd’s Algorithm Under Perturbations.” (2023)</p> <p>2 <b>Shen, H.</b> “Consistency of Statistical Learning Techniques: Unsupervised Learning and Network Change Point.” (2023)</p>	
<b>Teaching Experience</b>	<b>STOR 115 Introduction to Data Models and Inference</b> <i>UNC-CH</i> <ul style="list-style-type: none"><li>◦ Instructor</li></ul> <b>STOR 445 Stochastic Modeling</b> <b>STOR 455 Methods of Data Analysis</b> <b>STOR 555 Mathematical Statistics</b> <b>STOR 634 Measure and Integration (graduate level)</b> <i>UNC-CH</i>	<b>2021.8 - 2021.12</b>      <b>2020</b> <b>2019, 2022</b> <b>2018, 2020</b> <b>2019</b>

- Teaching Assistant

<b>Mentoring Experience</b>	Mentor for Ph.D. qualifying exams in UNC, STOR	<b>2022 Summer</b>
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<b>Honors and Awards</b>	<b>Cambanis-Hoeffding-Nicholson Award, <i>UNC-CH STOR</i></b> - In recognition of superior academic performance in the first-year doctoral program	<b>Dec 2019</b>
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<b>Professional Activities</b>	<ul style="list-style-type: none"> <li>• Reviewer, Journal of Multivariate Analysis (2022, 2023)</li> <li>• <b>Memberships:</b> American Statistical Association.</li> </ul>
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<b>Software</b>	R, Python, Matlab, SAS, C++.
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<b>Professional Experience</b>	<b>Cardinal Operations</b> <i>Shanghai, China</i> ◦ Develop machine learning algorithms for facility location	<b>2018.5</b>
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<b>References</b>	<b>Eric D. Kolaczyk</b> <i>Professor</i> Statistics McGill University <i>Email:</i> <a href="mailto:eric.kolaczyk@mcgill.ca">eric.kolaczyk@mcgill.ca</a>
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