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Data Science Specialization | Information School | University of Washington Jump to Main Content Jump to Top Navigation Jump to Page Navigation Jump to Footer Navigation University of Washington University of Washington Information School Programs Informatics Undergraduate major and minor MLIS Master of Library and Information Science MSIM Master of Science in Information Management Museology Master of Arts Ph.D. Doctorate Program > Professional Development & Continuing Education Research Updates The latest news from our faculty and research staff Research Areas Core topics of iSchool research Research Groups Hubs for innovative scholarship & research Grants & Awards Recent funding for iSchool research projects Research Events Guest lectures and our Research Fair showcase News & Events News The latest stories from our community Events What's happening on campus and beyond Podcast Documents That Changed the World, with Joe Janes People Directory Find iSchool faculty, staff and students Alumni Stay connected with the iSchool and fellow alumni Advising & Support Find help from our team of student advisors Faculty Affairs Making the iSchool a joyful professional community for faculty The School About Us The iSchool is home to innovators and leaders who make information work Diversity We are committed to building an inclusive community Employers & Partners How to collaborate with faculty and students Capstone Students work with organizations to solve information problems Support the iSchool Every gift makes a difference to students Customize Your Experience Would you like to see information for Future Students , Current Students , Faculty & Staff , or Everyone ? Audience Tools Search Menu Master of Science in Information Management Informatics MLIS MSIM Curriculum Specializations Artificial Intelligence Business Intelligence Data Science Information Architecture Information Security PPMC User Experience Degree Tracks Residential & Online Tuition, Aid & Scholarships Student Experience Career Outcomes Admissions Museology Ph.D. Academics Admissions Committees Scholarships & Funding People Professional Development & Continuing Education Resources: Advising & Support Capstone Projects Upcoming Info Sessions Videos: Alumni at Work Request more information Data

Science Specialization Programs MSIM Specializations Data Science The Data Science (DS) specialization prepares you with skills to study the computational and quantitative analysis of large datasets to transform data into action. The MSIM program provides pathways to ensure students from all technical backgrounds are able to succeed in this specialization. Students often pair this specialization with Business Intelligence, Program/Product Management & Consulting, or Cybersecurity. This specialization teaches you to use methods, tools and frameworks for analyzing and harnessing data into actionable insights that drive decision-making. Availability: Online ; Residential, daytime and evening classes Skills you will develop Transform data into action by using computational and quantitative methods, tools and frameworks to analyze and derive insights from large-scale, heterogeneous data to make strategic decisions. Learn the theoretical and practical foundations of data science through key concepts, such as exploratory data analysis, statistical inference, supervised and unsupervised machine learning, scaling and distributed computing, and network analysis. Use tools/techniques to build large-scale neural models for text and images and understand their impact on privacy and equity. ?My data science skills have blown way past my own expectations, and I?ve become a very capable data practitioner.? ? Jesse Velasquez, ?22 Elective courses in the Data Science specialization This specialization consists of three courses that will help you master the theoretical and practical foundations of data science and hone your technical skills. Courses in this specialization are sequenced and cannot be taken out of order. Learn more about the core, elective and Capstone/practicum courses in the UW MSIM curriculum. IMT 573: Data Science I Theoretical Foundations (4 credits) Provides an overview of key concepts, focusing on foundational concepts such as exploratory data analysis and statistical inference. Assignments are data-intensive and require significant programming and statistical analysis. IMT 574: Data Science II Machine Learning & Econometrics (4 credits) Provides theoretical and practical introduction to modern techniques for the analysis of large-scale, heterogeneous data. Covers key concepts in inferential statistics, supervised and unsupervised machine learning, and network analysis. IMT 575: Data Science III Scaling, Applications and Ethics (4 credits) Challenges and opportunities of data science at massive scale. Covers systems and languages for manipulating data across hundreds of

computers, tools and techniques for building large-scale neural models for text and images, and the impact on privacy and equity as these large-scale models proliferate. Career outcomes Students who specialize in business intelligence frequently find roles with titles including data analyst, data management specialist, data scientist, machine learning engineer, and technical program manager. Resources: Advising & Support Capstone Projects Upcoming Info Sessions Videos: Alumni at Work Request more information News iBuyers are changing real estate racial disparities, iSchool research shows Tuesday, August 13, 2024 Instant buyers, also known as iBuyers, rapidly buy and sell homes using automated models to set prices. These companies, such as Opendoor and Offerpad, can turn around cash offers in a matter of hours, and they?ve captured more than 5%... Read more IMLS awards more than $1 million to iSchool researchers Tuesday, August 13, 2024 The Institute of Museum and Library Services (IMLS) has awarded a total of more than $1 million in grants to University of Washington Information School researchers to support four projects that build on scholarship in libraries and... Read more Events Aug 28 3:00-4:00PM Informatics Program Overview for Future UW Seattle First-Year and Current High School Students Zoom / Online Sep 4 3:00-4:00PM Informatics Program Overview for Transfer Students Zoom / Online Sep 11 10:00-11:00AM iCareer Services Program Orientation (All Programs) Sep 11 5:00-6:00PM iCareer Services Program Orientation (All Programs) Zoom / Online iSchools.org Jobs Contact Us Privacy Policy Terms & Conditions Logo & Brand Guidelines IT / Help Desk Twitter Facebook Instagram Youtube LinkedIn Make a Gift iSchools.org © 2024 UW Information School Box 352840 - Mary Gates Hall, Ste. 370 Seattle , WA 98195-2840 United States of America 206-685-9937 Close Close menu Toolkit Customize Your Experience Change audience type Search: All People Programs Informatics MLIS MSIM Museology Ph.D. Professional Development & Continuing Education Research Updates Research Areas Research Groups Grants & Awards Research Events News & Events News Events Podcast People Directory Alumni Advising & Support Faculty Affairs The School About Us Diversity Employers & Partners Capstone Support the iSchool toolkit iSchool Intranet MyUW Outlook on the web Office 365 Workday UW Time Schedule UW Academic Calendar iSchool Slack Knowledge Base Watermark Azure Dev Tools Online Learning Help Zoom

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