NYU Graduate Coursework

Jules Berman, Major: Scientific Computing

Intro to Math Analysis — Grade: [B+]

Rigorous treatment of Calculus, Taylor Series, Metric Spaces, Pointwise and Uniform Convergence

Linear Algebra I — Grade: [A-]

Vector spaces, Basis, Dimension, Matrices, Homomorphisms, Duality, Inner Products, Adjoints, Similarity.

Foundations of Machine Learning — Grade: [A]

Generalization Bounds, PAC Models, VC Dimension, SVM, Kernel Methods, Margin Theory

Mathematics of Deep Learning — Grade: [A]

Geometric Deep Learning, High-dimensional Optimization, (Non)-Convex Optimization, Signal Processing for ML

Numerical Methods I — Grade: [A]

Numerical Linear Algebra, Approximation, Polynomial Interpolation, Quadrature, Nonlinear Optimization

Numerical Methods II — Grade: [A]

Spectral Methods, Adaptive Quadrature, Methods for Elliptic/Parabolic/Hyperbolic PDEs, Multigrid Methods

Applied Stochastic Analysis — Grade: [A]

Monte Carlo Methods, Markov Chains, Stochastic Processes, Stochastic Differential Equations

Honors Analysis of Algorithms — Grade: [TBD]

Greedy Algorithms, Amortized Analysis, Dynamic Programming, Max-flow, Randomized Algorithms, NP-Completeness.

Overall GPA: 3.9

Name: **Jules M Berman**
Birthdate (MM/DD): **09/27**
Print Date: **11/14/2021**
Student ID: **N11802442**
Institution ID: **002785**
Page: **1 of 1**

New York University
Beginning of Graduate Record

Honors Analy of Algo CSCI-GA 3520-001 4.0 ***

	AHRS	EHRS	QHRS	QPTS	GPA
Current	4.0	0.0	0.0	0.000	0.000
Cumulative	28.0	24.0	24.0	93.000	3.875

End of Graduate Record

Fall 2019
Graduate School of Arts and Science
Non-Degree
Major: Mathematics

Intro to Math Analysis I	MATH-GA 1410-001	3.0	B+
Linear Algebra I	MATH-GA 2110-001	3.0	A-

	AHRS	EHRS	QHRS	QPTS	GPA
Current	6.0	6.0	6.0	21.000	3.500
Cumulative	6.0	6.0	6.0	21.000	3.500

Fall 2020
Graduate School of Arts and Science
Master of Science
Major: Scientific Computing

Foundations of Machine Learning	CSCI-GA 2566-001	3.0	A
Numerical Methods I	MATH-GA 2010-001	3.0	A

	AHRS	EHRS	QHRS	QPTS	GPA
Current	6.0	6.0	6.0	24.000	4.000
Cumulative	12.0	12.0	12.0	45.000	3.750

Spring 2021
Graduate School of Arts and Science
Master of Science
Major: Scientific Computing

Numerical Methods II	CSCI-GA 2421-001	3.0	A
Spec Top Computer SCI: Mathematics of Deep Learning	CSCI-GA 3033-079	3.0	A
Applied Stochastic Analysis	MATH-GA 2704-001	3.0	A

	AHRS	EHRS	QHRS	QPTS	GPA
Current	9.0	9.0	9.0	36.000	4.000
Cumulative	21.0	21.0	21.0	81.000	3.857

Summer 2021
Graduate School of Arts and Science
Master of Science
Major: Scientific Computing

Advanced Practical Training	MATH-GA 3775-001	3.0	A

	AHRS	EHRS	QHRS	QPTS	GPA
Current	3.0	3.0	3.0	12.000	4.000
Cumulative	24.0	24.0	24.0	93.000	3.875

Fall 2021
Graduate School of Arts and Science
Master of Science
Major: Scientific Computing