NAME: Min-Chun Wu I request permission to read a 500-level course for 3 credits in * Dimensionality Reduction with Professor Vladimir Itskov during the אות Spring semester as follows. I have already taken the following supporting PSU graduate courses (give grades): Modern Creanity (A) (in Taiwan) Machine Learning (A) (on Web). Text and/or periodicals to be read (list chapter/section headings that you plan to cover): 1. Geometric Structure of High-Dimensional Data and Dimensionality Reduction (by) J. Wang 2. 3. Professor Supervising Course 01/12/2017. MouClum Ulu Signature Student <u>9469 2984</u> I.D. Number Approved Denied Director of Graduate Studies Signature Date

18884

PETITION TO READ GRADUATE MATH COURSE

NAME: Min-Chun Wu		
I request permission to read a 5 * TDA with Pr	500-level course for3 rofessorVladimiy Itskov	credits in during the
win Spring semester as follow	s. I have already taken the fo	llowing
Applied Algebraic Topology (A),	es (give grades):	
Text and/or periodicals to be reto cover): 1. Persistence Theory - From	Quiver Rep. to Data Anelys	is by 5. oudot 2015.
2. Zigzes Persistence / Zigz	reg Persistent Homology and	6) G. Cerlsson,
3.	N	
Professor Supervising Course _	Şignature	01/12/2017 Date
Student	Mulum Um Signature	<u>0\/(z/201</u> 7.
-	94669 2784. I.D. Number	
Appro	oved Denie	ed
Director of Graduate Studies	Signature	Date

011 597643

PETITION TO READ GRADUATE MATH COURSE

NAME: Min-Chun Wu	
I request permission to read a 500-level course for credits in * Algebraic Topology with Professor Vladimix Itskov during the	
Spring >016 semester as follows. I have already taken the following	
supporting PSU graduate courses (give grades):	
Applied Topology (Grade: A).	
Text and/or periodicals to be read (list chapter/section headings that you plan to cover): 1. Bott/Tu - Differential forms in algebraic topology. (§ 14. The Spectral Seq. of a Filtered Comple.	×)
2. J.J. Rotman - An Introduction to Homological Algebra (2nd Edition) (Chap 10. Spectral	
Professor Supervising Course Signature Date	æ,
Student $\frac{\text{Min-Clum Mu}}{\text{Signature}} = \frac{01/14/2016}{\text{Date}}$	
94692784 I.D. Number	
Approved Denied	
Director of Graduate Studies Signature Date	

011 59764

PETITION TO READ GRADUATE MATH COURSE

NAME: Min-Clum Wu	was a second of the second of	
I request permission to read a * Probability with P	500-level course for 3 rofessor Vladimir Itskov	_ credits in during the
Spring 2016 semester as follow	vs. I have already taken the	following
supporting PSU graduate cours		
Text and/or periodicals to be r	ead (list chapter/section hea	dings that you plan
to cover):	L Zfrion)	
to cover): 1. A. Shi ryaev - Probability (Ch 1 & 1- Ch 2 & 1- Ch 3 & 1-	c 12 & 12 (latex)	· Markor chains · ch 3 & 11 - & 12.
<u>Ch1</u> §1-	se 810- \$12.	, cu 5 gm - 3 cc.
2. <u>Q12</u> 31-	~88,3"	
3	•	
C1,4 \$1	-\$3,	
Professor Supervising Course	Kernot	S 01/19/1/
	Signature	Date /
Student	Min-Clum Wy	01/19/2016
	Signature	Date
	946692784	
	I.D. Number	
·		
Appr	oved De	nied
Director of Graduate Studies	Witten but !	<u> </u>
	Signature	Date

310c	,
PETITION TO READ GRADUATE MATH COURSE 32948	7
TETTTON TO REPORT	
NAME: Min-Chun Wu	
request permission to read a 500-level course for 3 credits in * Machine Learning with Professor 1tskov during the	
Fall 2016 semester as follows. I have already taken the following supporting PSU graduate courses (give grades):	
Algebra: A.	
Reading Course on Probability: A.	
Text and/or periodicals to be read (list chapter/section headings that you plan to cover):	,
1. Learning From Data (by Y. Abu-Mostafa, et al.) (Whole Book).	
2. The Elements of Statistical Learning (by T. Hastie, et al). (ref Book)	
3. An Introduction to Statistical Learning (by G. James, et al.) (tel Book)	
Professor Supervising Course Signature Date	
Student Min Clum Wy 09/07/2016 Signature Date	-
94669 2784 I.D. Number	
Approved Denied	
Director of Graduate Studies Date	

32948

NAME: Min Chun Wu
I request permission to read a 500-level course for credits in *Topologial Data Analysis with Professor Loss dutation the following
Fall, 2016 semester as follows. I have already taken the following
supporting PSU graduate courses (give grades): Applied Algebraic Topology: A / Abstrace Algebra: A.
Text and/or periodicals to be read (list chapter/section headings that you plan to cover): 1. Elementery Applied Topology (by Robert Christ).
2. Zigzag Persistence (by Gunnar Carlsson and Vin de Silva)
3. Computerional Topology (by H. Edels Liminer). Professor Supervising Course Signature Date
Student $\frac{\text{Min Clum New}}{\text{Signature}} = \frac{08/16/1016}{\text{Date}}$
9 4669 29 84. I.D. Number
Approved Denied Wilcon Kuth
Director of Graduate Studies Signature Date

NAME: Min-Chun Wu		1
I request permission to read a * Statistics / Stochastic Columbus With F	500-level course for3 ProfessorVladimir Itskov	credits in during the
2018 Spring semester as follow		
supporting PSU graduate cours		
517 Probability Theory (Gra	de: A)	
Text and/or periodicals to be to cover): 1. All of Statistics - A		
2. An Intornal Inexo to S	todiestic Celanlus W/ A	TPP. (by O. Celin).
3.	Ushob	
Professor Supervising Course	Vladimir Itskov Signature	
Student	Molin Mu Signature	01/10/2018 Date
	9 4669 2784 I.D. Number	
Appr	oved Do	enied
Director of Graduate Studies	Anna J Matty (abo	1 /17 /18 Date

AME: Min-Chun Wu
request permission to read a 500-level course for credits in Riemanian Mfd /Mfd Leerning the
ાં કુરાંગ્યું semester as follows. I have already taken the following
upporting PSU graduate courses (give grades): 528 Diff. Manifolds. (Crade: A).
ext and/or periodicals to be read (list chapter/section headings that you plan o cover): [1997][J. Lee] Riemannian Mfds - An Indo to Curvature.
. [2012] [J. Wang] Geometric Scructure of High-Dim. Date and Dim. Reduction
•
rofessor Supervising Course Alan 1/10/18 Signature Date
tudent May 1/10/18 Signature Date
946692784 I.D. Number
Approved Denied
Director of Graduate Studies Anne & Matrice to 1/17/18 Signature Date

IAME: MIN-CHUN WU
request permission to read a 500-level course for3 credits in Theoretical Machine Learning the with Professor Vladimir Itskov during the following
upporting PSU graduate courses (give grades): Real Anelysis (A), Probability Theory (A), some reading courses (A).
Text and/or periodicals to be read (list chapter/section headings that you plan o cover): · Understanding Machine Learning: From Theory to Algorithms. by Shei Shelev-Schamaz,e
by Shei Shelev-Schuarz,e
Professor Supervising Course $\frac{08/30/20/7}{\text{Signature}}$
Signature Date Signature Date Multiplication Date 9 4669 2984
I.D. Number
Approved Denied
Director of Graduate Studies Anna & Mathack Date Signature

^{*}Subject