

## Graduate-Unofficial Transcript

Name: Bruce, Juliette Emmy  
SIS ID: 0005319662

Campus ID: 9071602230

Birthdate: 12/19/1991  
Print Date: 10/18/2023  
Institution Info: University of Wisconsin-Madison  
Other Institutions Attended  
Univ of Michigan at Ann Arbor Ann Arbor, MI USA

External Degrees

Univ of Michigan at Ann Arbor  
Bachelor of Science 05/01/2014

Degrees Awarded

Degree: Master of Arts-Mathematics  
Confer Date: 05/15/2016  
Major: Mathematics  
Degree: Doctor of Philosophy  
Confer Date: 08/23/2020  
Major: Mathematics  
Minor: Mathematics

Beginning of Graduate Record**Fall 2014-2015**

Program: Mathematics  
Major: Mathematics PHD

Session: Regular (09/02/2014 - 12/12/2014)

Course	Description	Attempted	Earned	Grade	Points
MATH 748	Algebraic Number Theory	3.000	3.000	A	12.000
MATH 851	Topics-Geometric Topology	3.000	3.000	A	12.000
MATH 863	Adv Topics-Algebraic Geom	3.000	3.000	A	12.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
	UW-Madison Term Summary: 4.000	9.000	9.000	9.000	36.000
	Adv Stg Term Summary:	0.000	0.000	0.000	0.000
	Combined Term Summary: 4.000	9.000	9.000	9.000	36.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
	UW-Madison Cum Summary: 4.000	9.000	9.000	9.000	36.000
	Adv Stg Cum Summary:	0.000	0.000	0.000	0.000
	Combined Cum Summary: 4.000	9.000	9.000	9.000	36.000

**Spring 2014-2015**

Program: Mathematics  
Major: Mathematics PHD

Session: Regular (01/20/2015 - 05/08/2015)

Course	Description	Attempted	Earned	Grade	Points
MATH 752	Introductory Topology II	3.000	3.000	A	12.000
MATH 845	Class Field Theory	3.000	3.000	A	12.000
MATH 863	Adv Topics-Algebraic Geom	3.000	3.000	A	12.000
MATH 867	Analytic Number Theory	3.000	3.000	A	12.000
MATH 941	Seminar-Algebra	3.000	3.000	A	12.000

	GPA	Attempted	Earned	GPA Units	Points
UW-Madison Term Summary:	4.000	15.000	15.000	15.000	60.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	4.000	15.000	15.000	15.000	60.000

	GPA	Attempted	Earned	GPA Units	Points
UW-Madison Cum Summary:	4.000	24.000	24.000	24.000	96.000
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	4.000	24.000	24.000	24.000	96.000

**Summer 2015**

Program: Mathematics  
Major: Mathematics PHD

Session: DHH (06/15/2015 - 08/09/2015)

Course	Description	Attempted	Earned	Grade	Points
MATH 990	Reading and Research	3.000	3.000	S	0.000

	GPA	Attempted	Earned	GPA Units	Points
UW-Madison Term Summary:	0.000	3.000	3.000	0.000	0.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	0.000	3.000	3.000	0.000	0.000

	GPA	Attempted	Earned	GPA Units	Points
UW-Madison Cum Summary:	4.000	27.000	27.000	24.000	96.000
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	4.000	27.000	27.000	24.000	96.000

**Fall 2015-2016**

Program: Mathematics  
Major: Mathematics PHD

Session: Regular (09/02/2015 - 12/15/2015)

Course	Description	Attempted	Earned	Grade	Points
MATH 750	Homological Algebra	3.000	3.000	AB	10.500
MATH 823	Adv Topics-Complex Analysis	3.000	3.000	A	12.000
MATH 844	Elliptic Curves&Modular Forms	3.000	3.000	A	12.000
MATH 865	Advanced Topics in Geometry	3.000	0.000	DR	0.000

Course Dropped: 09/16/2015

MATH 941	Seminar-Algebra	3.000	3.000	A	12.000
MATH 990	Reading and Research	3.000	3.000	S	0.000

	GPA	Attempted	Earned	GPA Units	Points
UW-Madison Term Summary:	3.875	15.000	15.000	12.000	46.500
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	3.875	15.000	15.000	12.000	46.500

	GPA	Attempted	Earned	GPA Units	Points
UW-Madison Cum Summary:	3.958	42.000	42.000	36.000	142.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.958	42.000	42.000	36.000	142.500

## Graduate-Unofficial Transcript

Name: Bruce,Juliette Emmy  
SIS ID: 0005319662

## Spring 2015-2016

Program: Mathematics  
Major: Mathematics PHD  
  
Program: Mathematics  
Major: Mathematics MA

Session: Regular (01/19/2016 - 05/06/2016)

Course	Description	Attempted	Earned	Grade	Points
MATH 746	Topics in Ring Theory	3.000	3.000	A	12.000
MATH 847	Topics in Algebra	3.000	3.000	A	12.000
MATH 851	Topics-Geometric Topology	3.000	3.000	A	12.000
MATH 941	Seminar-Algebra	3.000	3.000	A	12.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	4.000	12.000	12.000	12.000	48.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	4.000	12.000	12.000	12.000	48.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.969	54.000	54.000	48.000	190.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.969	54.000	54.000	48.000	190.500

## Summer 2016

Program: Mathematics  
Major: Mathematics PHD

Session: DHH (06/13/2016 - 08/07/2016)

Course	Description	Attempted	Earned	Grade	Points
MATH 990	Reading and Research	3.000	3.000	S	0.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	0.000	3.000	3.000	0.000	0.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	0.000	3.000	3.000	0.000	0.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.969	57.000	57.000	48.000	190.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.969	57.000	57.000	48.000	190.500

## Fall 2016-2017

Program: Mathematics  
Major: Mathematics PHD  
Minor: Mathematics MIN

Session: Regular (09/06/2016 - 12/15/2016)

Course	Description	Attempted	Earned	Grade	Points
MATH 941	Seminar-Algebra	3.000	3.000	A	12.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	4.000	3.000	3.000	3.000	12.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	4.000	3.000	3.000	3.000	12.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.971	60.000	60.000	51.000	202.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.971	60.000	60.000	51.000	202.500

## Spring 2016-2017

Program: Mathematics  
Major: Mathematics PHD  
Minor: Mathematics MIN

Session: Regular (01/17/2017 - 05/04/2017)

Course	Description	Attempted	Earned	Grade	Points
MATH 740	Enum Combinatrcs/Symmet Functn	3.000	0.000	DR	0.000
MATH 863	Course Dropped: 02/22/2017 Adv Topics-Algebraic Geom	3.000	3.000	A	12.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	4.000	3.000	3.000	3.000	12.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	4.000	3.000	3.000	3.000	12.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.972	63.000	63.000	54.000	214.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.972	63.000	63.000	54.000	214.500

## Summer 2017

Program: Mathematics  
Major: Mathematics PHD  
Minor: Mathematics MIN

Session: DHH (06/19/2017 - 08/13/2017)

Course	Description	Attempted	Earned	Grade	Points
MATH 990	Reading and Research	3.000	3.000	S	0.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	0.000	3.000	3.000	0.000	0.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	0.000	3.000	3.000	0.000	0.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.972	66.000	66.000	54.000	214.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.972	66.000	66.000	54.000	214.500

## Fall 2017-2018

Program: Mathematics  
Major: Mathematics PHD  
Minor: Mathematics MIN

Session: Regular (09/06/2017 - 12/13/2017)

Course	Description	Attempted	Earned	Grade	Points
MATH 847	Topics in Algebra	3.000	3.000	A	12.000

## Graduate-Unofficial Transcript

Name: Bruce, Juliette Emmy  
 SIS ID: 0005319662

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	4.000	3.000	3.000	3.000	12.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	4.000	3.000	3.000	3.000	12.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.974	69.000	69.000	57.000	226.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.974	69.000	69.000	57.000	226.500

## Spring 2017-2018

Program: Mathematics  
 Major: Mathematics PHD  
 Minor: Mathematics MIN

Session: Regular (01/23/2018 - 05/04/2018)

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
INTEGSCI 660	Research Mentor Training	1.000	0.000	DR	0.000
Course Dropped: 02/14/2018					
MATH 941	Seminar-Algebra	3.000	3.000	A	12.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	4.000	3.000	3.000	3.000	12.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	4.000	3.000	3.000	3.000	12.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.975	72.000	72.000	60.000	238.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.975	72.000	72.000	60.000	238.500

## Summer 2018

Program: Mathematics  
 Major: Mathematics PHD  
 Minor: Mathematics MIN

Session: DHH (06/18/2018 - 08/12/2018)

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
MATH 990	Reading and Research	3.000	3.000	S	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	0.000	3.000	3.000	0.000	0.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	0.000	3.000	3.000	0.000	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.975	75.000	75.000	60.000	238.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.975	75.000	75.000	60.000	238.500

## Fall 2018-2019

Program: Mathematics  
 Major: Mathematics PHD  
 Minor: Mathematics MIN

Session: Regular (09/05/2018 - 12/12/2018)

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
E P D 690	Special Topics in E P D	2.000	2.000	A	8.000
Course Topic: Inclusive Prac in Uni Class					
MATH 941	Seminar-Algebra	1.000	1.000	A	4.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	4.000	3.000	3.000	3.000	12.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	4.000	3.000	3.000	3.000	12.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.976	78.000	78.000	63.000	250.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.976	78.000	78.000	63.000	250.500

## Spring 2018-2019

Program: Mathematics  
 Major: Mathematics PHD  
 Minor: Mathematics MIN

Session: Regular (01/22/2019 - 05/03/2019)

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
MATH 941	Seminar-Algebra	3.000	3.000	S	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	0.000	3.000	3.000	0.000	0.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	0.000	3.000	3.000	0.000	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.976	81.000	81.000	63.000	250.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.976	81.000	81.000	63.000	250.500

## Summer 2019

Program: Mathematics  
 Major: Mathematics PHD  
 Minor: Mathematics MIN

Session: DHH (06/17/2019 - 08/11/2019)

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
MATH 990	Reading and Research	3.000	3.000	S	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	0.000	3.000	3.000	0.000	0.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	0.000	3.000	3.000	0.000	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.976	84.000	84.000	63.000	250.500
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.976	84.000	84.000	63.000	250.500

## Graduate-Unofficial Transcript

Name: Bruce, Juliette Emmy  
SIS ID: 0005319662

## Fall 2019-2020

Program: Mathematics  
Major: Mathematics PHD  
Minor: Mathematics MIN

Graduate Career Totals  
Advanced Standing Credits: 0.000  
Cum Credits: 93.000  
Cum GPA Credits: 63.000  
Cum Grade Points: 250.500  
GPA: 3.976

Session: Regular (09/04/2019 - 12/11/2019)

Course	Description	Attempted	Earned	Grade	Points
MATH 941	Seminar-Algebra	3.000	3.000	S	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
	UW-Madison Term Summary:	0.000	3.000	3.000	0.000
	Adv Stg Term Summary:		0.000	0.000	0.000
	Combined Term Summary:	0.000	3.000	3.000	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
	UW-Madison Cum Summary:	3.976	87.000	87.000	63.000
	Adv Stg Cum Summary:		0.000	0.000	0.000
	Combined Cum Summary:	3.976	87.000	87.000	63.000
					250.500

## Non-Course Milestones

Program: Mathematics  
Graduate PhD Minor Program Completed  
Status: Completed  
Date Completed: 05/06/2016  
Date Attempted: 05/06/2016 Completed

Graduate Preliminary Exam Passed  
Status: Completed  
Date Completed: 02/29/2016  
Date Attempted: 02/29/2016 Completed

## Spring 2019-2020

Program: Mathematics  
Major: Mathematics PHD  
Minor: Mathematics MIN

Graduate PhD/DMA Major Requirements Completed  
Status: Completed  
Date Completed: 05/06/2016  
Date Attempted: 05/06/2016 Completed

Session: Regular (01/21/2020 - 05/01/2020)

Course	Description	Attempted	Earned	Grade	Points
MATH 990	Reading and Research	3.000	3.000	S	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
	UW-Madison Term Summary:	0.000	3.000	3.000	0.000
	Adv Stg Term Summary:		0.000	0.000	0.000
	Combined Term Summary:	0.000	3.000	3.000	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
	UW-Madison Cum Summary:	3.976	90.000	90.000	63.000
	Adv Stg Cum Summary:		0.000	0.000	0.000
	Combined Cum Summary:	3.976	90.000	90.000	63.000
					250.500

## Memoranda

02-05-2016  
Grade changed in MATH 990 (1162) from P to S  
work completed: 2015-12-15  
02-17-2017  
Grade changed in MATH 941 (1172) from P to A  
work completed: 2016-12-21  
01-02-2019  
Grade changed in MATH 941 (1192) from NR to A  
work completed: 2018-12-20  
04-05-2021  
NOTE: A global public health emergency in Spring 2020,  
Summer 2020, Fall 2020 and Spring 2021 required marked  
changes to university operations that may have  
significantly affected student enrollment, learning,  
and grading.

## Summer 2020

Program: Mathematics  
Major: Mathematics PHD  
Minor: Mathematics MIN

Session: DHH (06/15/2020 - 08/09/2020)

Course	Description	Attempted	Earned	Grade	Points
MATH 990	Reading and Research	3.000	3.000	S	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
	UW-Madison Term Summary:	0.000	3.000	3.000	0.000
	Adv Stg Term Summary:		0.000	0.000	0.000
	Combined Term Summary:	0.000	3.000	3.000	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
	UW-Madison Cum Summary:	3.976	93.000	93.000	63.000
	Adv Stg Cum Summary:		0.000	0.000	0.000
	Combined Cum Summary:	3.976	93.000	93.000	63.000
					250.500

End of Graduate-Unofficial Transcript