

J. Scott Jordan Maisha Tahsin Orthy Zhi Quan Lim Michael Dow Megan Herling

Department of Psychology / Illinois State University





# Welcome to Otherland

Using Graphic Novels to Teach Multi-Scale Othering

A Game A Course

A Life





### Welcome to Otherland

In Otherland, we will examine a scientifically inspired philosophy known as Wild Systems Theory, an approach to understanding living systems, including humans, that conceptualizes them as living stories. That is, instead of thinking of people as physical bodies having either spiritual souls, mental minds, or both, we will come to understand persons as energy-transformation systems that continually intake, transform, and dissipate energy in the name of remaining a living system. Given such systems emerge step-by-step out of the trajectory of lived life, they are story-like; that is, they are narratives. And because these narratives always reside and emerge at the intersection of choices and chance, they are wild. In short, we are wild narratives.

An essential aspect of being a wild narrative is creating and sustaining borders at multiple, nested levels of scale, from the molecular, to the biological, psychological, sociological, cultural, and the cosmic. To get a grip on just how thoroughly our wild narratives are constrained and contextualized by our many self-created borders, we will engage with a collection of superb graphic novels. Specifically, in addition to investigating the personal and cultural borders the characters in these narratives generate and sustain, we will also examine how comic creators/authors/illustrators utilize the very structure of graphic novels (e.g., imagery, text, panel sizes, page turns, etc.) to create contexts and contrasts that reveal the borders of our perceptions, cognitions, and expectations. This idea—that creating borders necessarily creates relational contrasts—is referred to as 'othering.' And as you move through Otherland, you will come to understand just how profoundly your own 'othering' has shaped your life. In the end, it will be up to you to decide if Otherland is an imaginary place, or if it might be the case you've been living in Otherland your entire life.

### Welcome to Otherland

In Otherland, we will examine a scientifically inspired philosophy known as Wild Systems Theory, an approach to understanding living systems, including humans, that conceptualizes them as living stories. That is, instead of thinking of people as physical bodies having either spiritual souls, mental minds, or both, we will come to understand persons as energy-transformation systems that continually intake, transform, and dissipate energy in the name of remaining a living system. Given such systems emerge step-by-step out of the trajectory of lived life, they are story-like; that is, they are narratives. And because these narratives always reside and emerge at the intersection of choices and chance, they are wild. In short, we are wild narratives.

An essential aspect of being a wild narrative is creating and sustaining borders at multiple, nested levels of scale, from the molecular, to the biological, psychological, sociological, cultural, and the cosmic. To get a grip on just how thoroughly our wild narratives are constrained and contextualized by our many self-created borders, we will engage with a collection of superb graphic novels. Specifically, in addition to investigating the personal and cultural borders the characters in these narratives generate and sustain, we will also examine how comic creators/authors/illustrators utilize the very structure of graphic novels (e.g., imagery, text, panel sizes, page turns, etc.) to create contexts and contrasts that reveal the borders of our perceptions, cognitions, and expectations. This idea—that creating borders necessarily creates relational contrasts—is referred to as 'othering.' And as you move through Otherland, you will come to understand just how profoundly your own 'othering' has shaped your life. In the end, it will be up to you to decide if Otherland is an imaginary place, or if it might be the case you've been living in Otherland your entire life.

### Things to admit up front...

I LOVE science

I LOVE the taste of ice cream

Science currently makes assumptions about what people ARE that prevent the taste of ice cream from being necessarily real

This makes me very sad

Of course, my sadness is just as unreal as the taste of ice cream

Are there different ways to talk about reality so that the taste of ice cream can be real?

Our models of what we are and what we are living in, necessarily contextualize and constrain what we think consciousness and anticipation are.

# Spirits in a material world

Informational minds in a physical world

Physical minds in a physical world

Quantum minds in a quantum world

### OUTLINE

Examine predominant contemporary take on reality of anticipation and consciousness

Informational minds in a physical world

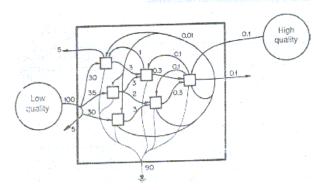
Implications for Anticipation and Consciousness

Alternative perspective:
Anticipation and Consciousness as Self-sustaining
Embodiment of Context

# What if energy transformation is what we are? Kauffman (1995), Maturana & Varela (1980), Rosen (1981)

Nature as
a self-organizing
energy-transformation
hierarchy





Self-organizing

Hierarchy

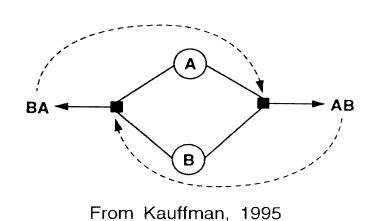
Energy-transformers, not physical/mental systems

### What if energy transformation is what we are?

Kauffman (1995), Maturana & Varela (1980), Rosen (1981)

### Autocatalysis

### Sustainment Within a Transformation Hierarchy



Chemical interactions produce their own catalysts

Living systems are self metabolizing systems

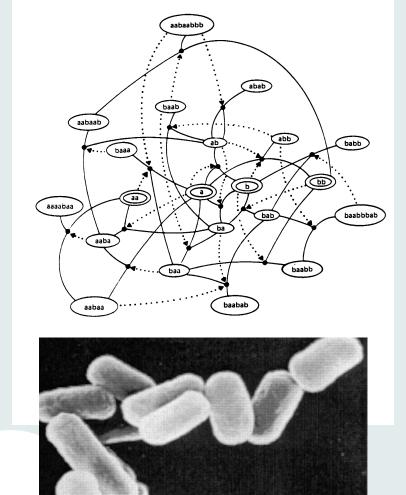
The work produces products that actually sustain the work (self-sustaining work)

All Wild Narratives (living systems) necessarily create borders between themselves and context.

These borders *necessarily* create system/non-system distinctions.

Wild Systems Theory (Jordan, 2013) refers to these distinctions as 'othering.'

We are constituted of multiple, nested scales of 'othering.'



# Multiple, Nested Levels of Othering

Neurons (Hebb, 1949)

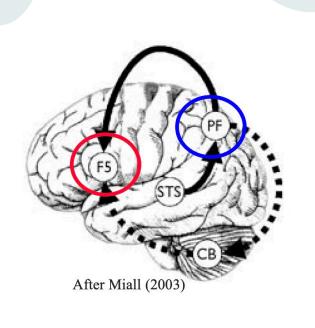
Brains (Edelman, 1989)

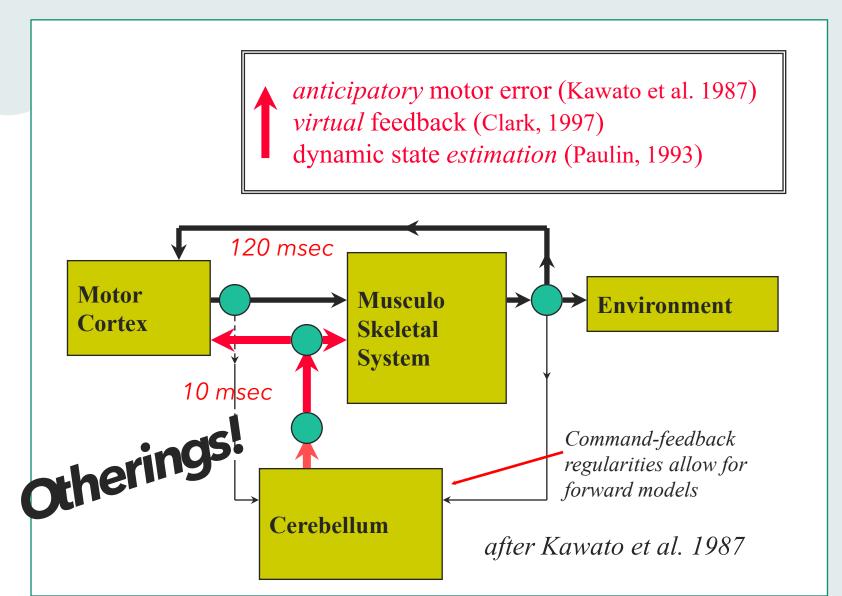
Behaviors (Skinner, 1954)

Recursion (Bickhard, 2001)

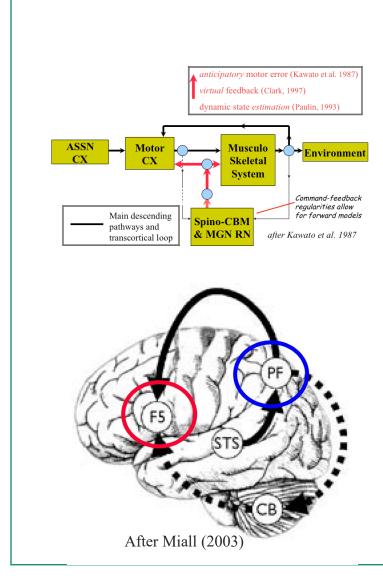
Wild Systems Theory (Jordan, 2013)

### How Brains Create Otherings





### How Brains Create Otherings

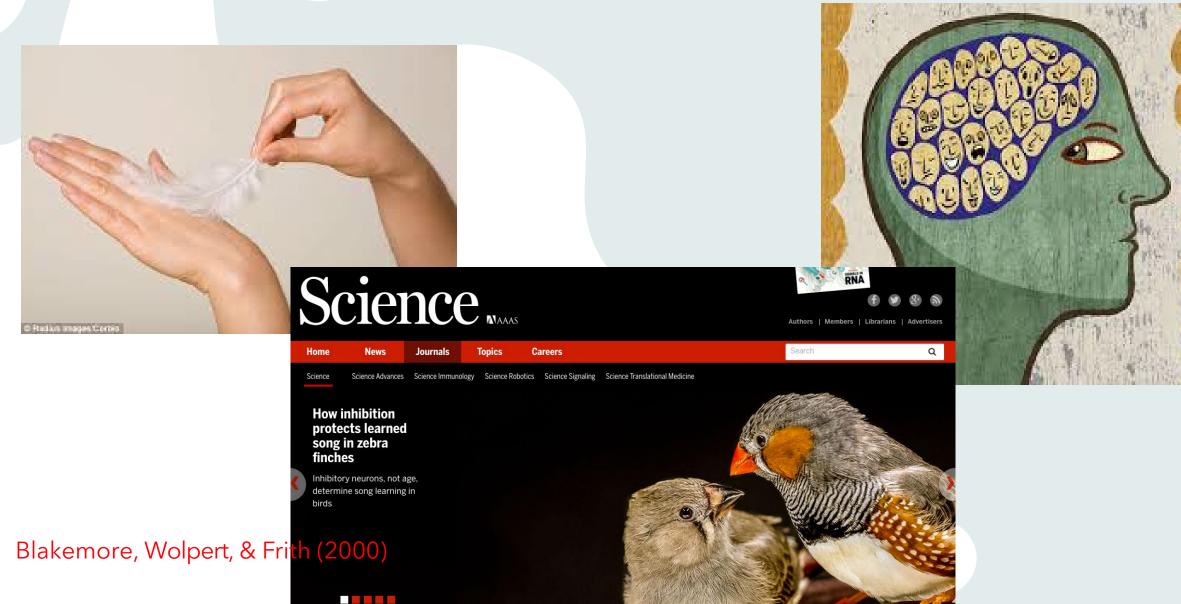


Almost every aspect of cortex is recursively coupled with cerebellum

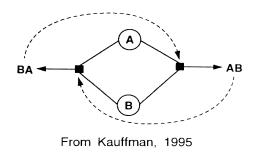
(Koziol et al. 2011; Schmahmann, 2001).

As a result of such neural recursion, at all time scales (i.e., action, perception, and cognition) the past is continuously fed forward into the present as a prediction about the future. We call this *anticipation*.

Multi-scale prospective recursion allows us to couple ourselves with, and sustain ourselves within, events taking place at increasingly large time scales Why Brains Create Otherings



### Consciousness and Meaning as Self-sustaining Embodied Context (Embodied *Abountess*)



Self-sustaining systems are embodiments of the contexts from which they emerged.

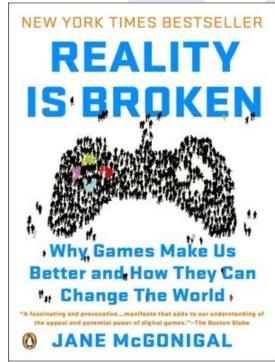
In short, they are *embodied context* (Spinoza's notion of *finitudes*).



They are thus naturally and necessarily 'about' the contexts they embody.

There is therefore no epistemic divide between the organism and its environment. Their internal processes are naturally and necessarily meaningful because they are embodied context.

### Choice, Othering, Flow, and Meaning (i.e., embodied context)



Reality is broken and we need to make it work more like a game.

— Jane McGonigal —

All self-sustaining systems necessarily generate and sustain system/context boundaries/borders.

If we conceptualize thought and behavior as border construction and sustainment, the WORK of behaving and thinking CREATES some possibilities while simultaneously 'othering' (i.e., extinguishing) other possibilities.

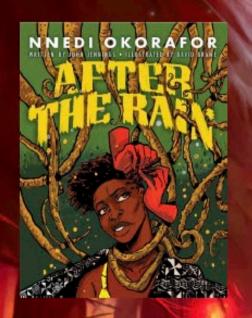
Our thoughts and behaviors evolved to both create and 'other' possibilities.

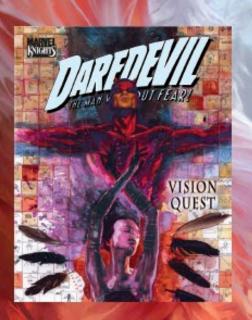
Our sense of identify, of being an "I" that is doing "this" emerges from the possibilities we both create and negate.

Expert creators experience a sense of agency known as "flow."

As culture altered the relationship between bodies, borders, and possibility, we simultaneously decreased opportunities for 'flow.'

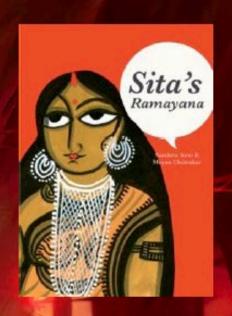
McGonigal claims that video games re-establish the historically-direct connection between behavior and flow, ultimately making us feel more agentic and efficacious.











How did we integrate these ideas of embodied context, 'othering,' and 'flow' into a class?

Otherland

A Game

A Course

A Life

### Required Quests and Side Quests through Otherland

Just as you, yourself, are a wild narrative, perpetually creating your lived story at the intersection of choice and chance, so, too, is Otherland. Below is a list of the points required to achieve whatever grade you wish to attain by the end of your journey.

A = 500 - 450

B = 450 - 400

C = 400 - 350

D = 350 - 300

On the way to achieving your goal, you are required to complete the tasks listed below. Together, these tasks comprise your **Required Quest** through Otherland. In addition to your **Required Quest**, you may also choose to complete a number of optional tasks known as **Side Quests**. **Completing all tasks in the Required Quest qualifies you to add points acquired during Side Quests to your final grade.** The meaning and details of all tasks will be clarified in the sections titled, Routes.

Task	Possible Points
Wild Borders Paper	<mark>100</mark>
Three Graphic Novel Papers	<mark>75</mark>
Term Paper	<mark>100</mark>
3 Strategy Reports	30
Pre & Post Semester Questionnaires	50
All assignments in on time	5
Possible Points from Required Quests	500

### The 'Wild Borders' Paper

#### Wild Borders:

Science, Literature, and the Transdisciplinary Nature of Being

Jordan, J.S. (in press). Wild borders: Science, literature, and the transdisciplinary nature of being. In G. Bhatnagar (ed.), *Literature and Transdisciplinarity*. MacMillan India.

Darkness turns to grey
Night caresses day
Words belong
to something
very cruel

Anonymous

W.G. Sebald's *The Rings of Saturn* (1998) describes an unknown narrator's walk along England's East Anglia coastline through Norfolk and Suffolk counties. The motions of the tale are propelled by the structures and events encountered along the way. Expressed in the language of textual and visual memory, the narrative juxtaposes genres in a manner that thoroughly, yet

### The 'Wild Borders' Paper

#### **Wild Borders Paper Instructions**

For the Wild Borders Paper, do the following:

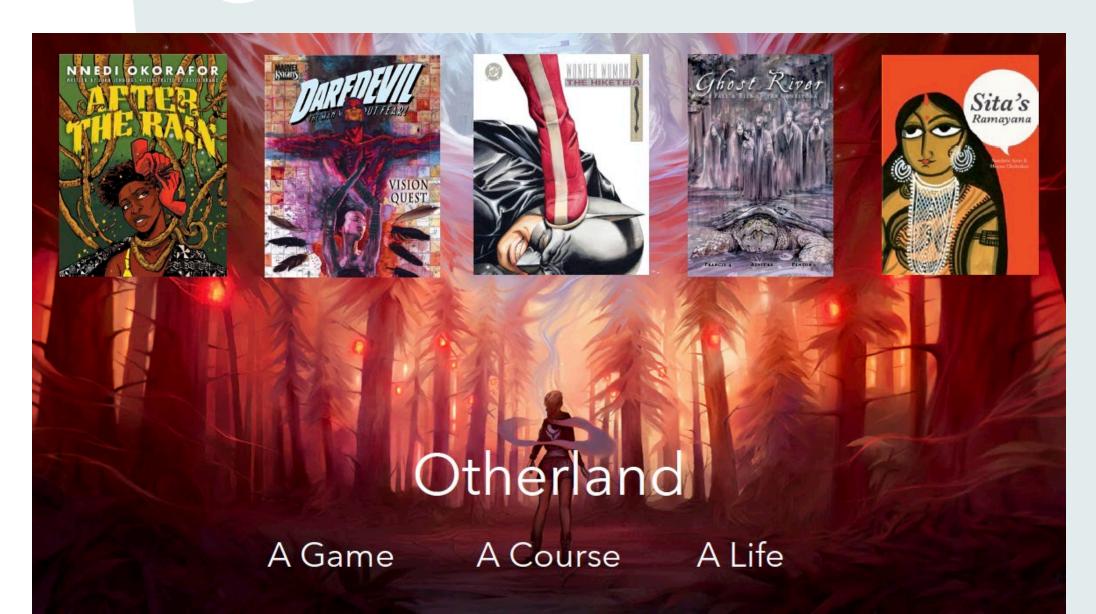
- 1. Read the paper, "Wild Borders: Science, Literature, and the Transdisciplinary Nature of Being." You can find the paper under "Resources" in Reggienet.
- 2. Either attend the "Wild Borders Discussion" (see Zoom Pro tab in Reggienet for date, time, and zoom link) or watch the "Wild Border Discussion" (see Lessons tab in Reggienet) after 1/26/23.
- 3. Watch the following YouTube video: "Wild Narratives: Science, Literature, and the Transdisciplinary Nature of Being" at https://youtu.be/zx10ggrES58
- 4. Write a 2-3 page, double-space, 12pt font paper that address the following:
  Jordan describes organisms as multi-scale self-sustaining systems (wild systems) versus mental/physical systems. Describe what this means, making your address the following points:

self-organizing energy-transformation hierarchy self-sustaining work multi-scale work embodied context versus objective-subjective properties embodied contexts necessarily create and sustain borders borders and 'othering' 'othering' in human history 'othering' in narratives

- 5. Make sure your paper utilizes information from all three sources (i.e., the paper, the YouTube talk, and the class discussion).
- 6. When mentioning information in your paper from one of the three sources, indicate the source in the paper by stating, "In the YouTube video," "In the paper," or "In the class discussion."
- 7. The paper should be no less than two pages and no more than three. It should be double-spaced, with 12pt font. Include a title page that has the following format:

Your Name Otherland Wild Borders Paper

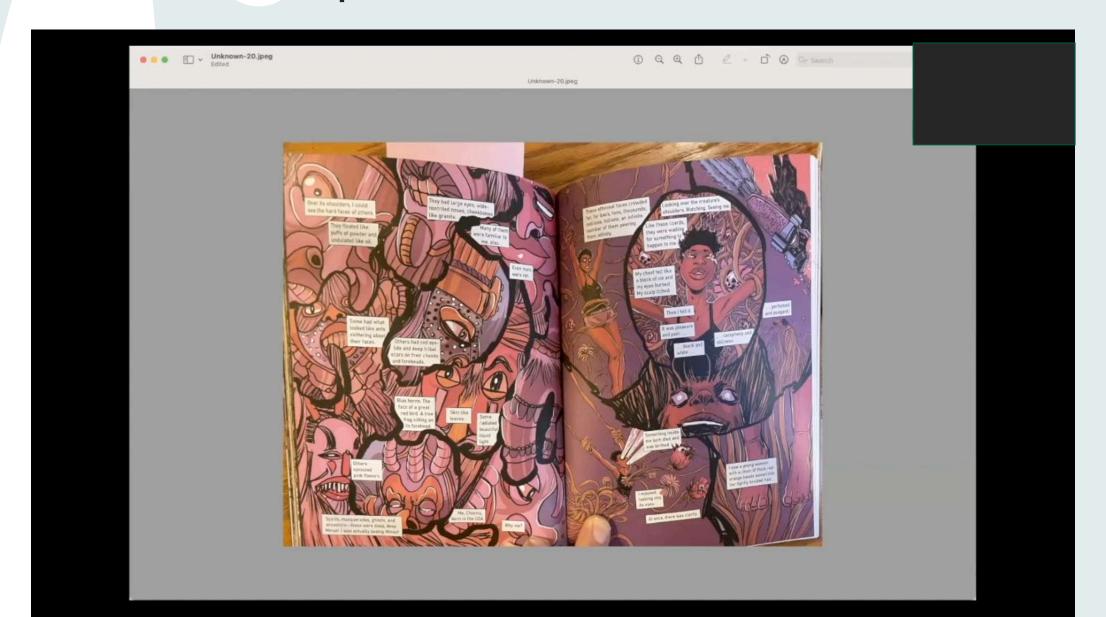
# The Graphic Novels



# The Graphic Novels



# The Graphic Novel Discussions



# The Graphic Novel Papers

#### **Graphic Novel Paper Instructions**

Write the Graphic Novel papers, write a paper that contains the following six parts:

- 1. A brief, one-paragraph description of the story.
- 2. A paragraph that describes an example of 'othering' that takes place on a specific page between frames on that page. Make sure to describe the frames and how relationships between them serves as an example of 'othering'. Make sure to indicate the page number.
- 3. A paragraph that describes an example of 'othering' that takes place between characters in the story. Describe the images and/or text that create the 'othering' relationship. Make sure to indicate page numbers when referring to specific pages in the story.
- 4. A paragraph that describes a frame/page/character in the story that surprised you. What did your surprise reveal about your own borders (assumptions)? Make sure to indicate page numbers when referring to specific pages in the story.
- 5. Describe something new you learned about 'othering' while engaging this story. Make sure to indicate page numbers when referring to specific pages in the story.

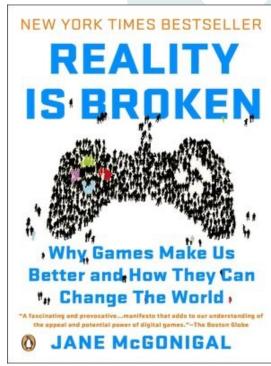
Make sure your paper mentions at least one of the discussion videos for this graphic novel. The paper should be no less than two and no more than three double-spaced, 12pt font pages. Include a title page that has the following format:

Your Name Otherland Graphic Novel Paper NAME OF GRAPHIC NOVEL

# The Term Paper

Title Page	3	00
At least 10 double spaced pages of Discussion	4	4
Reference Page	3	1.5
Perceptual Othering	20	20
Cognitive Othering	20	18
Psychological Othering	20	17
Cultural Othering	20	17
Quality of Writing	10	7
Total	100	84.5

### Assessing 'Choice' as Conscious Deliberation





We required students to creates "strategy reports" that indicated:

- 1. The grade they wanted for the course
- 2. The points associated with that grade
- 3. Their current point total
- 4. Assignments they would attempt to achieve desired grade.
- 5. Reasons for why they did not complete the assignments they indicated in previous strategy reports.

### Assessing 'Choice' as Conscious Deliberation

Student looking for 450 points		(Frame it as doing enough effort to get an A)					
Main Quests Points							
WB	100	Don't anticipate you will get 100% on everything					
3 GNP	75	You need to do these to pass the class					
TP	100						
3 SR	30						
Questionaires	50						
On Time	5	Needs 90 points from side quests					
Total:	360	But, lets assume we have 90% grade from quality.					
Side Quests		Requires: attending six scheduled events over the semester					
Panelw/Frame x4	20	Requires being able to commit to Otherland on Wednesdays and Thursdays at 6pm and 7pm respecti	ively				
Panelw/Question x4	20						
ReggieCon w/Question x2	10	Demands consistent high effort towards quality on written assignments across both main and side quests					
ReggieCon After party x2		Requires perfectly attending all the discussions you plan to.					
negarecon fire party x2	10	Requires perfectly attending all the discussions you plan to.					
	10 20	Requires perfectly attending all the discussions you plan to.					
Reggie Con Paper x2 Graphic Novel Paper x2		Requires perfectly attending all the discussions you plan to.					
Reggie Con Paper x2	20	Requires perfectly attending all the discussions you plan to.					
Reggie Con Paper x2 Graphic Novel Paper x2	20 50	Requires perfectly attending all the discussions you plan to.					
Reggie Con Paper x2 Graphic Novel Paper x2 Reggie Con Paper x 1	20 50	Requires perfectly attending all the discussions you plan to.					
Reggie Con Paper x2 Graphic Novel Paper x2 Reggie Con Paper x 1 (from viewing a reggie con	20 50	Requires perfectly attending all the discussions you plan to.					
Reggie Con Paper x2 Graphic Novel Paper x2 Reggie Con Paper x 1 (from viewing a reggie con	20 50 10	Requires periectly attending all the discussions you plan to.					

### Assessing 'Choice' as Conscious Deliberation

Student looking for 400 points		(Frame it as doing enough effort to get an B						
Main Quests Points								
WB	100	Don't anticipate you will get 100% on everything						
3 GNP	<b>75</b>	You need to do these to pass the class						
TP	100							
3 SR	30							
Questionaires	50							
On Time	5	Needs 40 points from side quests						
Total:	360	But, lets assume we have 90% grade from quality.						
Side Quests		Requires: attending six scheduled events over the semester						
Panelw/Frame x3	15	Requires being able to commit to Otherland on Wednesdays and Thursdays at 6pm and 7pm respectively						
Panelw/Question x3	15							
ReggieCon w/Question x1	5	Demands consistent high effort towards quality on written assignments across both main and side quests						
ReggieCon After party x1	5	Requires perfectly attending all the discussions you plan to.						
Reggie Con Paper x1	10							
Graphic Novel Paper x1	25							
Reggie Con Paper x 1	10							
(from viewing a reggie con	85							
discussion they didn't attend)								

Re-read every Graphic Novel paper. Coded sections in the following way:

### Dimension:

**A** = Application

■ = Introspection

**U** = Ubiquity of Othering

### Quality:

- + is Exceptional
- = is Good
- is Minimal

# A+

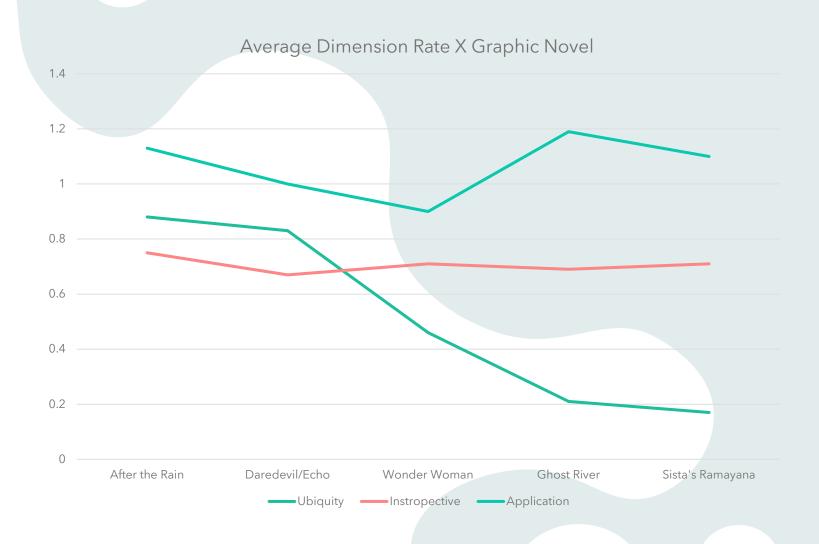
A good example of othering happens on page 35. This scene occurs in the part of the book where Chioma is already slipping into the other world but is still mainly in reality and her aunts are concerned about what is happening to her. The frames of this page are borders for the real world and keep the spirit world out. In the first 2 frames, the borders of the frames are mixing with the spirit world but are still holding it at bay. The third frame of the page lacks any borders which is a good example of the lack of othering. where the spirit world and real world mesh together and there aren't any borders that differentiate between the two. The last frame has apparent borders, successfully separating the two worlds and in another way othering itself.

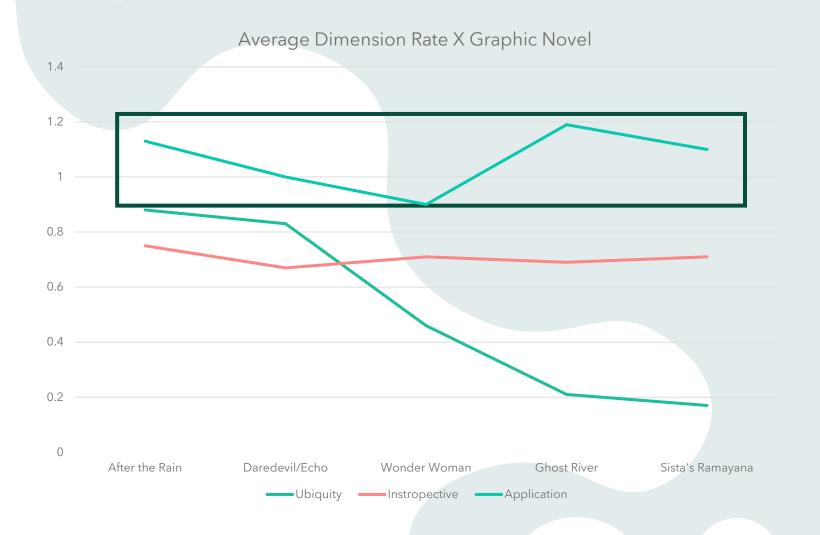


As it was talked about in the zoom discussions, one way Chioma exemplified 'othering' was from her own Western identity as a Chicago police officer. This relates to my personal life because I lived in Mexico for five years. With the identity I created living in central Illinois and exposing it to the Mexican culture, I 'othered' myself from it. Unlike the comic, I did not think I was better than those around me but had borders that clearly defined my identity from theirs. And even after living there for a couple of years and integrating the Mexican culture into my identity, I am still able to 'other' my American identity from my 'Mexican identity, as did Chioma with her Nigerian and American identities.

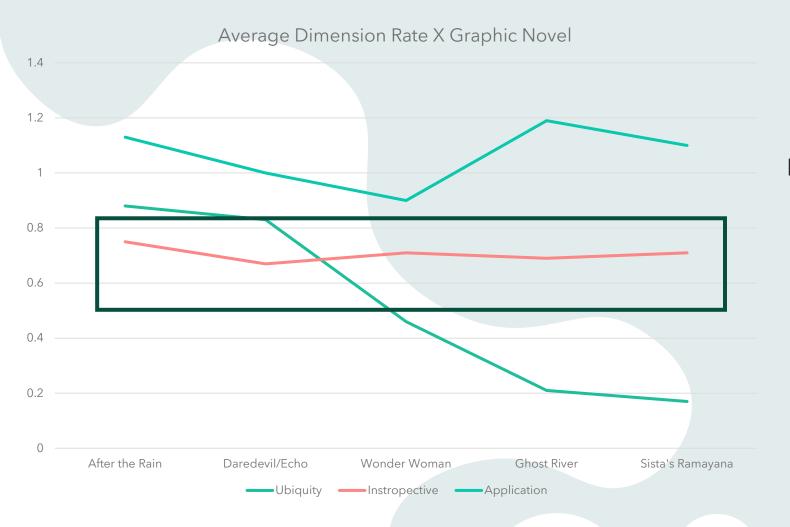
# U+

Another thing I learned about othering in this novel is that it's not exclusive to the physical borders but mental borders and borders on experiances as well. To explain this further, our minds have their own borders that are built based on our experiences and cultures. Throughout the novel, all the characters are good examples of this. More specifically, Chioma's experiences as a cop and the night she killed a man helped create borders and played a role in othering between her and someone else.

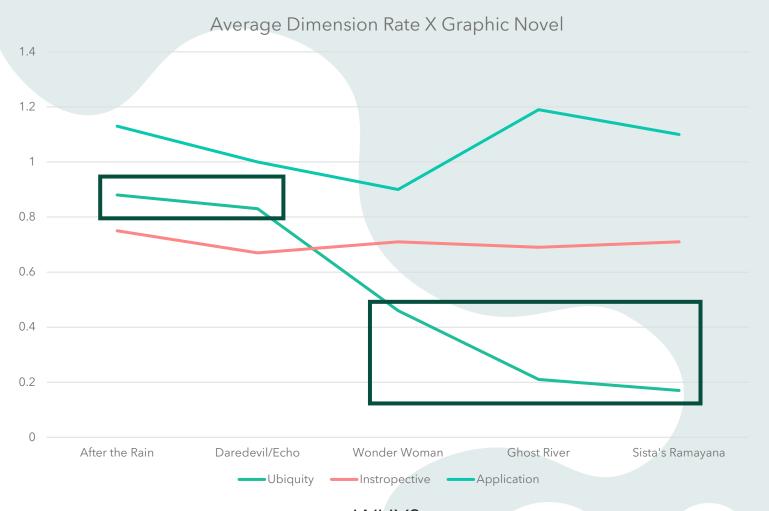




No significant difference in APPLICATION scores as a function of Graphic Novel



No significant difference in INTROSPECTION scores as a function of Graphic Novel



After the Rain and Daredevil result in more UBIQUITY scrores than Wonder Woman, Ghost

River, and Sita's

Ramayana

Significant

difference in

**UBIQUITY** 

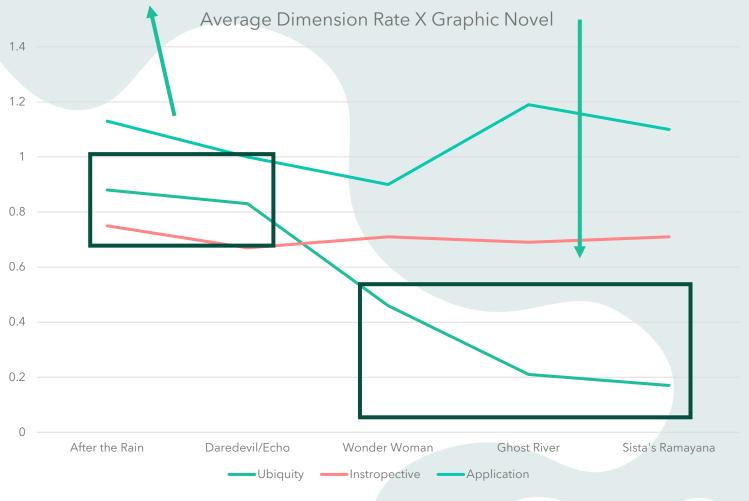
scores as a

function of

WHY?
Is it the Graphic Novel or the Students Who
Completed the Assignment?

Do those students who have more UBIQUITY scores perform better on other variables...

...than those students who have fewer UBIQUITY scores?



WHY?

Is is the Graphic Novel or the Students Who Completed the Assignment?

Significant difference in UBIQUITY scores as a function of Graphic Novel

After the Rain and Daredevil result in more UBIQUITY scrores than Wonder Woman, Ghost River, and Sita's Ramayana

# Total # Us, Is, and As By Quality, Participant, and Graphic Novel

	<b>₽</b> Um	<b>♣</b> Ue	გ Up	옳 lm	le	lp	🚜 Am	გ Ae	🚜 Ap	<b>♣</b> GN
1	.00	2.00	.00	.00	2.00	1.00	.00	3.00	.00	1.00
2	.00	4.00	.00	.00	2.00	.00	.00	2.00	.00	1.00
3	.00	1.00	.00	.00	1.00	.00	.00	3.00	1.00	1.00
4	.00	2.00	.00	.00	2.00	.00	.00	2.00	.00	1.00
5	.00	1.00	1.00	.00	3.00	1.00	.00	2.00	1.00	1.00
6	.00	2.00	.00	.00	.00	1.00	.00	5.00	1.00	1.00
7	2.00	1.00	.00	1.00	1.00	.00	1.00	.00	.00	1.00
8	.00	4.00	1.00	.00	.00	3.00	.00	2.00	4.00	1.00
9	2.00	2.00	.00	1.00	.00	1.00	.00	.00	.00	2.00
10	.00	1.00	.00	.00	1.00	.00	1.00	1.00	.00	2.00
11	.00	2.00	.00	.00	.00	1.00	.00	2.00	.00	2.00
12	.00	1.00	1.00	.00	1.00	.00	.00	4.00	1.00	2.00
13	.00	3.00	.00	.00	2.00	.00	.00	3.00	.00	2.00
14	.00	1.00	.00	.00	1.00	.00	.00	2.00	.00	2.00
15	.00	2.00	.00	.00	4.00	.00	.00	3.00	2.00	2.00
16	1.00	3.00	1.00	.00	3.00	1.00	.00	2.00	3.00	2.00
17	.00	.00	.00	.00	2.00	.00	.00	4.00	.00	3.00
18	.00	2.00	.00	.00	2.00	.00	2.00	2.00	.00	3.00
19	.00	1.00	.00	.00	1.00	1.00	1.00	2.00	1.00	3.00
20	1.00	1.00	.00	.00	.00	.00	.00	1.00	1.00	3.00

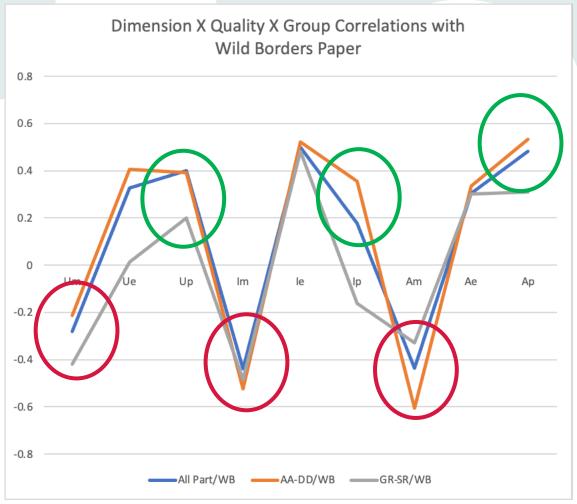
# Correlations between Us, Is, and As, Quality, and Graphic Novel

				Corr	elations						
											Wild Borders
		Um	Ue	Up	lm	le	lp	Am	Ae	Ap	Paper
Um	Pearson Correlation	1	.129	131	.169	107	.167	070	158	140	280
	Sig. (1-tailed)		.305	.303	.251	.337	.253	.392	.265	.290	.130
	N	18	18	18	18	18	18	18	18	18	18
Ue	Pearson Correlation	.129	1	.458*	.043	049	.473*	104	107	.553**	.326
	Sig. (1-tailed)	.305		.028	.433	.423	.024	.340	.336	.009	.09
	N	18	18	18	18	18	18	18	18	18	18
Up	Pearson Correlation	131	.458 <sup>*</sup>	1	396	.242	.685**	425 <sup>*</sup>	016	.807**	.402
	Sig. (1-tailed)	.303	.028		.052	.166	.001	.039	.474	.000	.04
	N	18	18	18	18	18	18	18	18	18	18
lm	Pearson Correlation	.169	.043	396	1	458 <sup>*</sup>	.012	.349	147	408 <sup>*</sup>	438
	Sig. (1-tailed)	.251	.433	.052		.028	.481	.078	.280	.046	.03
	N	18	18	18	18	18	18	18	18	18	1
le	Pearson Correlation	107	049	.242	458*	1	073	242	.373	.438*	.500
	Sig. (1-tailed)	.337	.423	.166	.028		.387	.166	.064	.035	.01
	N	18	18	18	18	18	18	18	18	18	18
lp	Pearson Correlation	.167	.473 <sup>*</sup>	.685**	.012	073	1	192	003	.604**	.17
	Sig. (1-tailed)	.253	.024	.001	.481	.387		.222	.495	.004	.24
	N	18	18	18	18	18	18	18	18	18	18
Am	Pearson Correlation	070	104	425 <sup>*</sup>	.349	242	192	1	519 <sup>*</sup>	374	435
	Sig. (1-tailed)	.392	.340	.039	.078	.166	.222		.014	.063	.03
	N	18	18	18	18	18	18	18	18	18	18
Ae	Pearson Correlation	158	107	016	147	.373	003	519 <sup>*</sup>	1	.147	.30
	Sig. (1-tailed)	.265	.336	.474	.280	.064	.495	.014		.280	.10
	N	18	18	18	18	18	18	18	18	18	18
Ap	Pearson Correlation	140	.553**	.807**	408*	.438*	.604**	374	.147	1	.483
	Sig. (1-tailed)	.290	.009	.000	.046	.035	.004	.063	.280		.02
	N	18	18	18	18	18	18	18	18	18	18
Wild Borders Paper_	Pearson Correlation	280	.326	.402*	438 <sup>*</sup>	.500*	.178	435 <sup>*</sup>	.305	.483*	
	Sig. (1-tailed)	.130	.093	.049	.035	.017	.240	.035	.109	.021	
	N	18	18	18	18	18	18	18	18	18	18

<sup>\*.</sup> Correlation is significant at the 0.05 level (1-tailed).

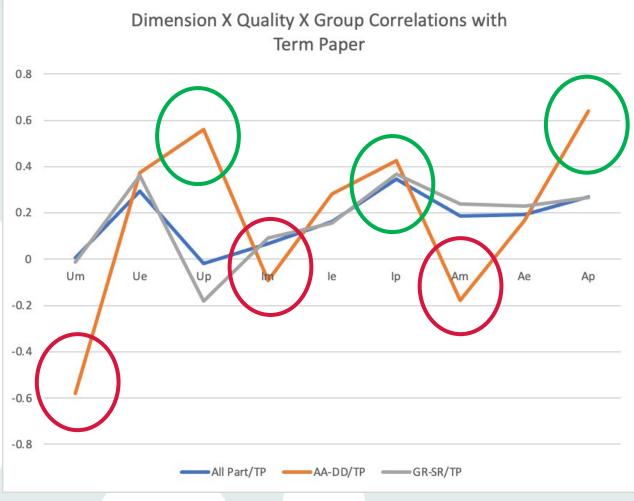
<sup>\*\*.</sup> Correlation is significant at the 0.01 level (1-tailed).

Wild Borders Paper predicts Dimension Scores



Correlations strongest for AA-DD and ALL students

Dimension Scores somewhat predict Term Paper



Correlations only strong for AA-DD students

### Conclusions

Otherland utilizes culturally-informed graphic novels so students have the opportunity to search for and identity 'otherings' happening at the perceptual level between frames, the cognitive level between thoughts, the social level between characters, the cultural level betweel cultural narratives, and the historical level between histories.

Wild Systems Theory provides a framework that allows students to experience and understand all these different levels of 'othering' as a natural, necessary aspect of being a wild narrative (i.e., a living system).

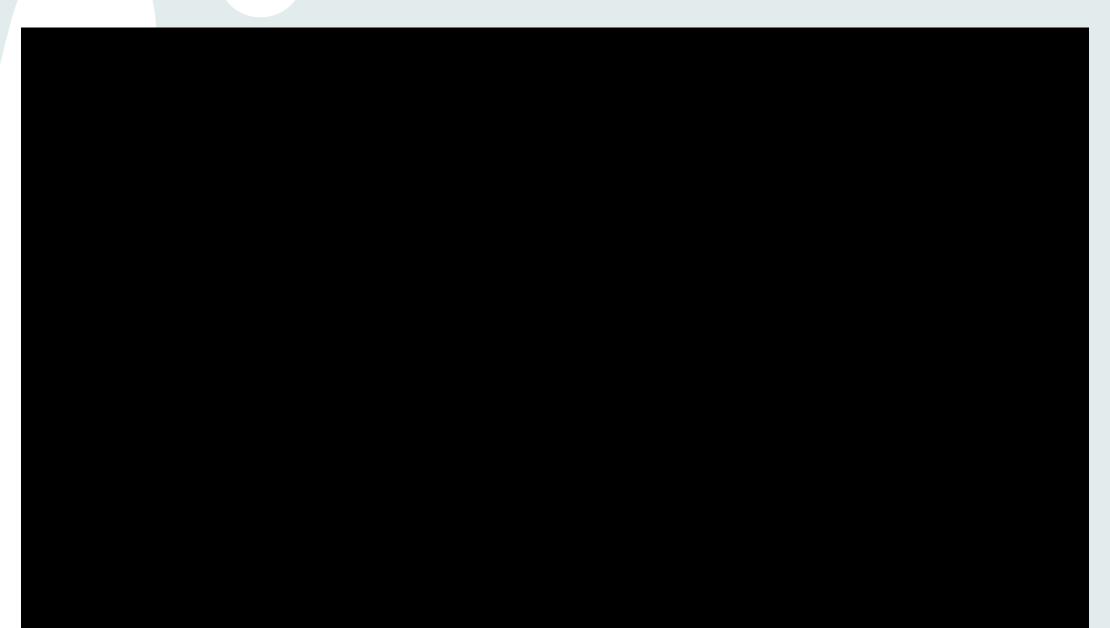
The drop off in UBIQUITY scores across the graphic novels has more to do with the students than the graphic novels. Performance on the Wild Borders paper better predicted the frequency of Dimension scores (i.e., Is, Us, and As) of students who completed the AA-DD graphic novel papers, versus those who completed the GR-SR graphic novel papers. In addition, the Dimension scores better predicted Term Paper performance for the AA-DD students.

Using Graphic Novels to teach multi-scale othering provides perceptual- and cognitive-level practice that seems to help students understand Wild Systems Theory and its assertion of ubiquitous othering.

One is All, All is One

Wild Systems Theory is cool!

### Conclusions



### Wild Horror:

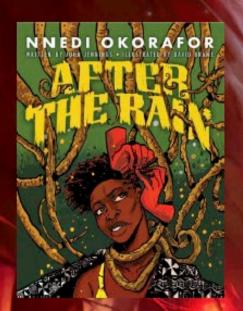
The Multi-scale Systems Approach to Generating, Sustaining, and Violating Boundaries

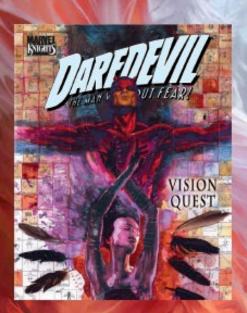
Symposium:
Hope Is a Fickle Thing:
The Way, The Final Girl, and The Last of Us
Saturday, 10:45-12:15
Room 8002



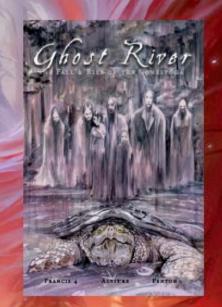
J. Scott Jordan
Department of Psychology
Illinois State University
jsjorda@ilstu.edu
YouTube: Dark Loops Productions
Founder/Director: ReggieCon

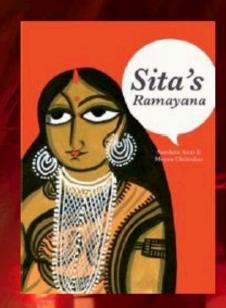












J. Scott Jordan Maisha Tahsin Orthy Zhi Quan Lim Department of Psychology / Illinois State University





# Welcome to Otherland

Using Graphic Novels to Teach Multi-Scale Othering

A Game

A Course

A Life

