TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Harrison Gimenez Title: Dr.

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
B.S.	2020	University of Evansville	Pre-doctoral Mathematics	N/A
M.S.	2022	University of Notre Dame	Mathematics	The Construction and Structure of the Brink-Howlett groupoid
Ph.D.	2026	University of Notre Dame	Mathematics	Coxeter n-cubes and Signed Groupoid-Sets

C. University Experience

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E. Other Professional Credential ficat

II. TEACHING

A. Teaching Honors and Awards: Outstanding Teaching Assistant Award (Notre Dame Spring 2024)

B. Courses Taught:

as lecturer/instructor: Calculus B, Calculus II (flipped classroom)

as teaching assistant: Calculus I, Linear Algebra and Differential Equations, Calculus A, Calculus B, Calculus II

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

D. Courses Prepared and Curriculum Development:

E. Teaching Grants and Contracts

1. Funded External Teaching Grants and Contracts:

2. Submitted, but not Funded, External Teaching Grants and Contracts:

3. Funded Internal Teaching Grants and Contracts:

4. Submitted, but not Funded, Internal Teaching Grants and Contracts:

F. Other:

G. Teaching Professional Development Activities Attended:

Colloquium: Dave Kung, Transforming Post-Secondary Education in Mathematics (April 23 2026)

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books:

e. Creative Books:

2. Articles:

a. Refereed Journal Articles:

b. Non-refereed Articles:
Gimenez, H. Coxeter systems, left inversion sets, and higher dimensional cubes. https://arxiv.org/abs/2504.03911. 2025

3. Conference Proceedings:

a. Refereed Conference Proceedings:

b. Non-refereed:

4. Abstracts:

5. Reports:

6. Book Reviews:

7. Essays:

8. Poems:

9. Short Stories:

10. Other Works in Print:

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

2. Invited Talks, Lectures, and Presentations:

"Root Systems of Brink-Howlett Groupoids". University of Louisiana at Lafayette Algebra Seminar. One hour long Zoom talk over Root Systems, Tits cone and imaginary cone of Brink-Howlett groupoids. April 1st 2026.
"Coxeter n-cubes". AMS 2025 Fall Western Sectional Meeting, Special Session on Representations of Finite and Algebraic Groups, III. 20 minute talk over Coxeter systems, left inversion sets, and higher dimensional cubes. August 24 2025.
"Permutations as Compositions of Reflections". Kalamazoo undergraduate colloquium talk. November 13 2024.

3. Consultancies:

4. Workshops:

5. Other Works not in Print:

a. Works "submitted" or "under review":

b. Works "in progress":
Gimenez, H. On The Weak Right Order of Right-Angeled Coxeter Systems. In preparation. 2026.
Dyer, M. and Gimenez, H. Root Systems, Tits cone and imaginary cone of Brink-Howlett groupoids. In preparation. 2026.

c. Other Works Not in Print:

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

2. Submitted, but not Funded, External Grants and Contracts:

3. Funded Internal Grants and Contracts:

4. Submitted, but not Funded, Internal Grants and Contracts:

D. Scholarly / Creative Fellowships, Awards, Honors: Bennett-Knott Award (University of Evansville, Spring 2020)

E. Scholarly / Creative Professional Development Activities Attended:

F. Media Recognition:

IV. SERVICE

A. Institutional

1. University:

2. College:

3. Department/School:

B. Professional:

C. Community: Northern Indiana Regional Science and Engineering Fair. University of Notre Dame. I volunteered as a judge evaluating the science and engineering projects of high school students. February 28 2026.

D. Organization Memberships:

E. Service Honors and Awards:

F. Service Grants and Contracts:

1. Funded External Service Grants and Contracts:

2. Submitted, but not Funded, External Service Grants and Contracts:

3. Funded Internal Service Grants and Contracts:

4. Submitted, but not Funded, Internal Service Grants and Contracts:

G. Service Professional Development Activities Attended: