RTG Undergraduate Seminar

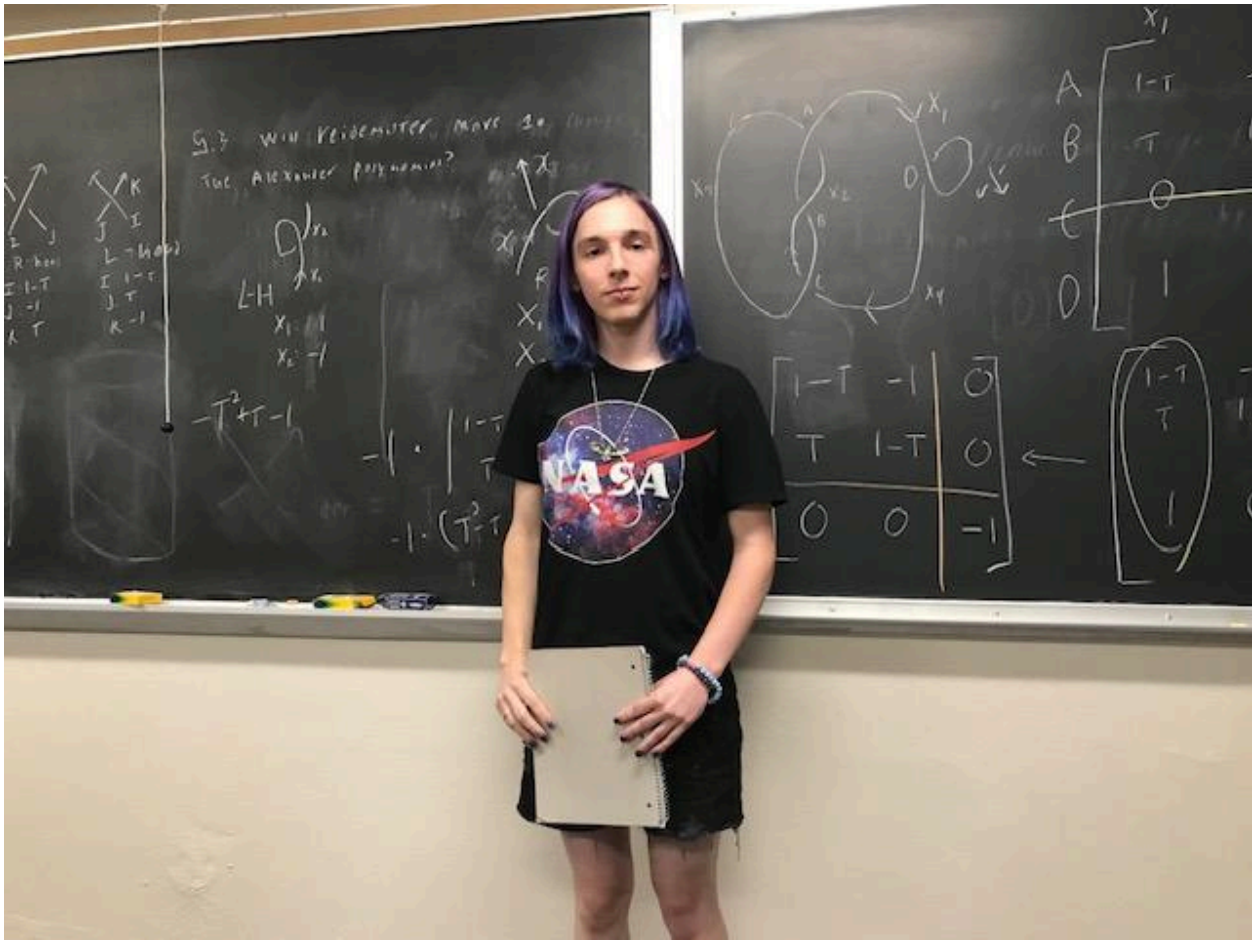
Spring 2024
Topic: Knot Theory (following “An Interactive Introduction to Knot Theory” by Inga Johnson and Allison K. Henrich)

Fridays 8:10am-9:10am in B13 MLH.
For more information contact Lizzie Buchanan (elizabeth-buchanan@uiowa.edu).

Fall 2023
Knots, variation of calculus
Tuesday 10:00-11:00 (B13 MLH)
Or
Tuesday 13:00-14:00 (B11 MLH).
For more information contact Keiko Kawamuro (keiko-kawamuro@uiowa.edu)

Aug 22 (10am), introduction
Aug 29 (1pm), Mackenzie Weber (3-colorability)
Sep 5 (10am), Carter Tams (orientation of knots) and Grace Peil (3-colorability continued)
Sep 12 (1pm), Zach Piker and Philippe Jay (Mod p colorability)
Sep 19 (10am) Astra Tomas and Mackenzie Weber (Alexander polynomials)
Sep 26 (1pm) Mackenzie Weber (Alexander polynomials continued) and Carter Tams (surface orientation and homeomorphisms)
Oct 3 (10am) Grace Peil (Euler characteristic and genus of a surface)
Oct 10 (No meeting)
Oct 17 (1pm) Zach Piker (Euler characteristic) and Philippe Jay (Seifert surface)
Oct 24 (10am) Astra Tomas (Seifert surface: exercise problems) and Mackenzie Weber (Surgery of surfaces)
Oct 31 (1pm) Carter Tams (Connected sum)

Nov 7 (10am) Grace Peil (Alexander matrix) Zach Piker (Alexander polynomial)
Nov 14 (1pm) Astra Tomas (TBA), Philippe Jay (TBA)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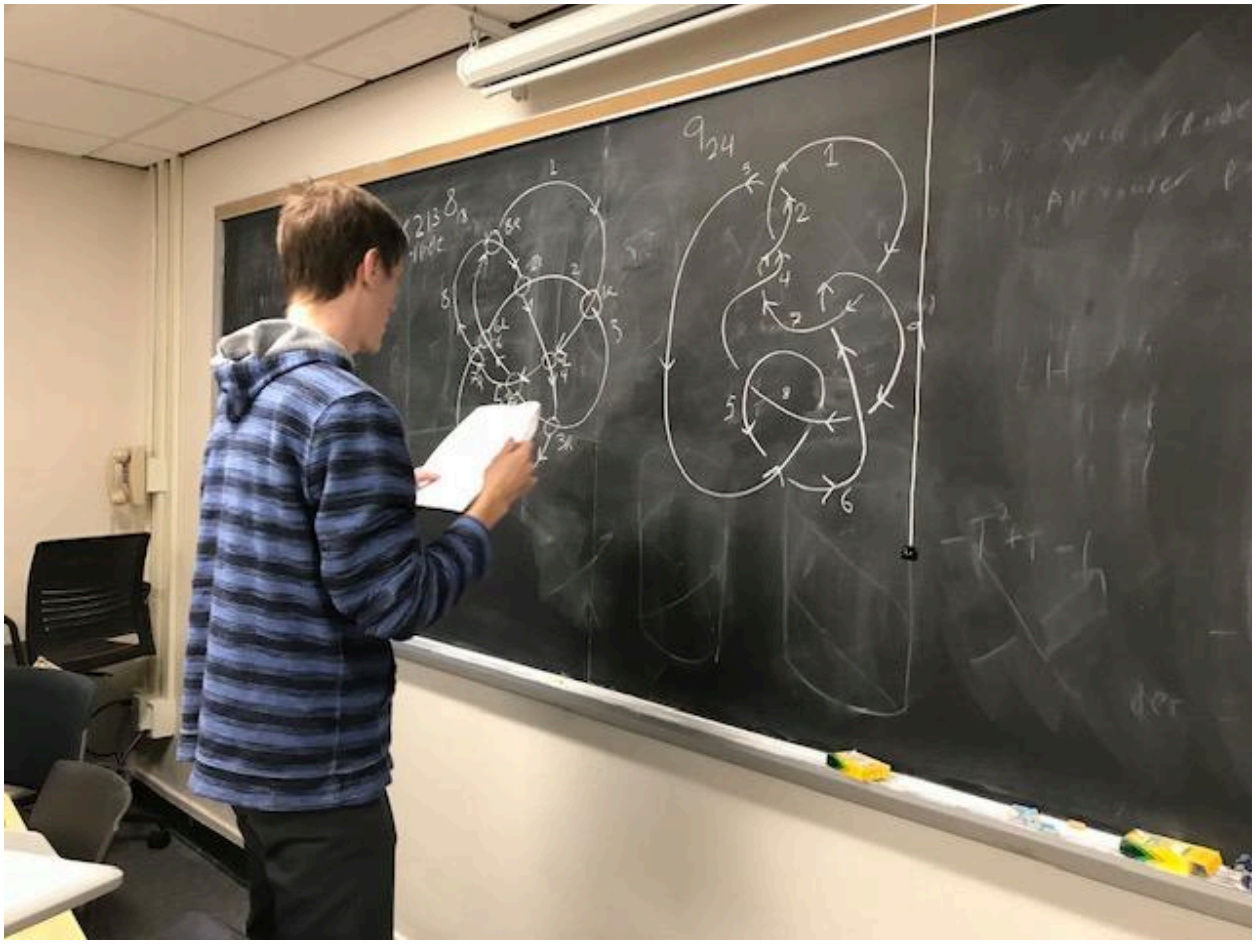
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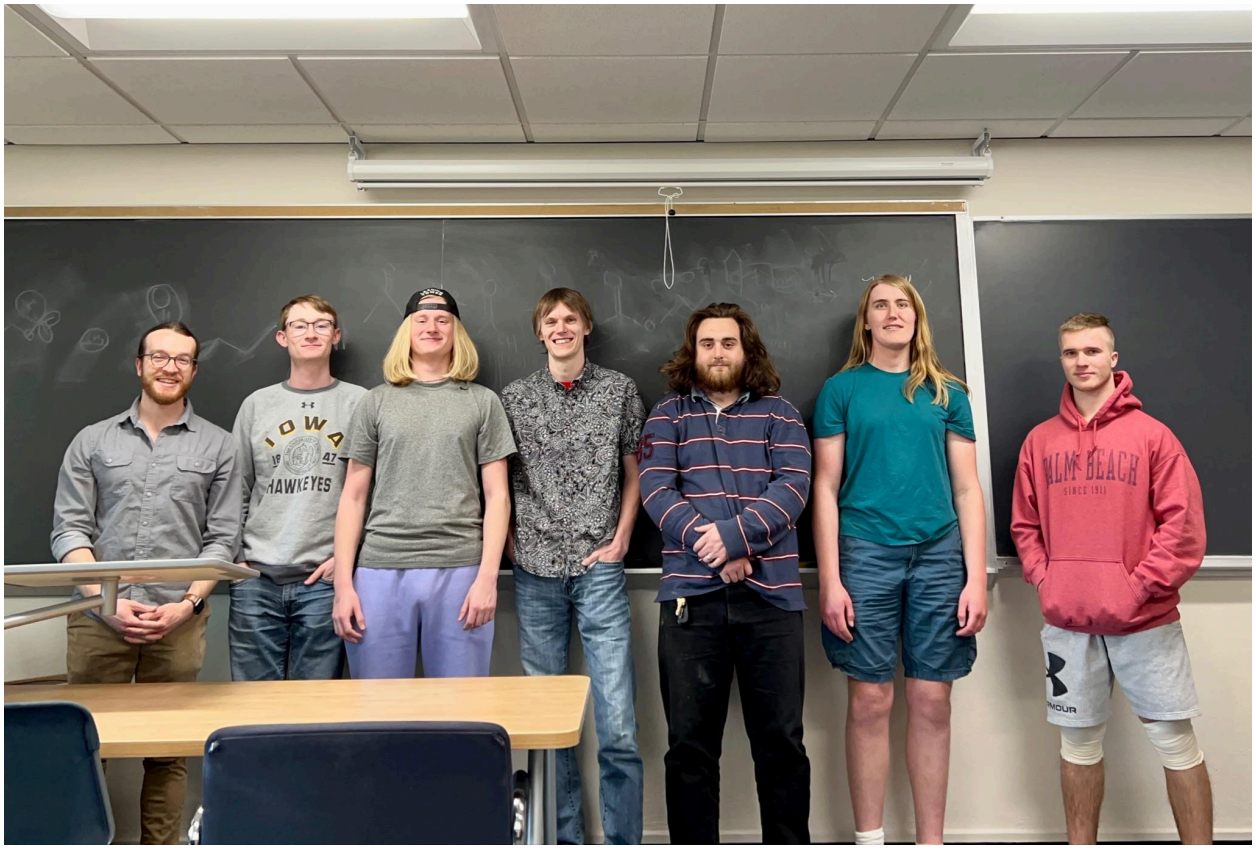
Spring 2023
Topic: Hyperbolic geometry (following “Low Dimensional Geometry” by Francis Bonahon

Monday 5:30-6:30 in B13 MLH.
For more information contact Joe Breen (joseph-breen-1@uiowa.edu).



Fall 2022
Topic: Algebraic Geometry (following book of Miles Reid)

Monday 9:30-10:30 or Tuesday 1-2 B13 MLH
To get more information or participate, please contact Professor Mohammad Tehrani.

Spring 2022
Topic: Tiling of the space

Wednesday 3:30-4:30 and Thursday 12:30-1:30, MLH B13.
To get more information or participate, please contact Professor Keiko Kawamuro.

Fall 2021
Topic: Differential Calculus

Please contact Professor Charlie Frohman.