

Kyle Gannon

Curriculum Vitæ

BICMR
Peking University
Beijing, China
kgannon@bicmr.pku.edu.cn

Employment

- 2023–present **Assistant Professor**, *Beijing International Center for Mathematical Research, Peking University*, Beijing, China
- 2020–2023 **Hedrick Adjunct Assistant Professor**, *UCLA*, Los Angeles, CA

Education

- 2020 **PhD in Mathematics**, *University of Notre Dame*, South Bend, IN
- Advisor: Sergei Starchenko.
 - Thesis: Approximation theorems for Keisler measures
- 2015 **BA in Mathematics & Philosophy**, *University of Chicago*, Chicago, IL

Research Articles

Preprints

20. Gabriel Conant, Kyle Gannon, and James E. Hanson, “Generic stability randomized.” Submitted.
19. Alexander Berenstein, Kyle Gannon, and Shichang Song, “Model theory of convolution algebras.” Submitted.
18. Nathanael Ackerman, Cameron Freer, Kyle Gannon, James E. Hanson, and Rehana Patel, “Generic sampling and invariant measures on the space of k -uniform hypergraphs.” Preprint.
17. Kyle Gannon and Tomasz Rzepecki, “Upside down and backwards.” Submitted.
16. Kyle Gannon, Daniel Max Hoffmann, and Krzysztof Krupiński, “Convolution semigroups for automorphism dynamics.” Submitted.

Accepted

15. Ilijas Farah, Kyle Gannon, and Pierre Touchard, “Coordinate recognition: General theory, Groups, and other surprises.” To appear *Journal of the Institute of Mathematics of Jussieu*.

Published

14. Kyle Gannon and James E. Hanson, “Model theoretic events,” *Annals of Pure and Applied Logic* (2026), article 103825.
13. Artem Chernikov, Kyle Gannon, and Krzysztof Krupiński, “Definable convolution and idempotent Keisler measures III. Generic stability, generic transitivity, and revised Newelski’s conjecture,” *Journal of the London Mathematical Society* **114**(1) (2026), e70639.
12. Kyle Gannon, “On transfer maps and the Morley product in NIP theories,” *The Journal of Symbolic Logic*, First View (2026), 1–24.
11. Christian d’Elbée and Kyle Gannon, “Measures and stability in a model, revisited,” *Bulletin of the Karaganta University. Mathematics Series* **1**(121) (2026), 110–121.
10. Gabriel Conant, Kyle Gannon, and James E. Hanson, “Generic stability, randomizations, and NIP formulas,” *Journal of Mathematical Logic* (2025), article 2550016.
9. Kyle Gannon, “Concerning Keisler measures over ultraproducts,” *Annals of Pure and Applied Logic* **176**(1) (2025), article 103492.

8. Kyle Gannon and Jinhe Ye, "An invitation to extension domination," *Notre Dame Journal of Formal Logic* **64**(3) (2023), 253–280.
7. Artem Chernikov and Kyle Gannon, "Definable convolution and idempotent Keisler measures, II," *Model Theory* **2**(2) (2023), 185–232.
6. Gabriel Conant, Kyle Gannon, and James E. Hanson, "Keisler measures in the wild," *Model Theory* **2**(1) (2023), 1–67.
5. Kyle Gannon, "Sequential approximations for types and Keisler measures," *Fundamenta Mathematicae* **257**(3) (2022), 305–336.
4. Artem Chernikov and Kyle Gannon, "Definable convolution and idempotent Keisler measures," *Israel Journal of Mathematics* **248**(1) (2022), 271–314.
3. Gabriel Conant and Kyle Gannon, "Associativity of the Morley product of invariant measures in NIP theories," *The Journal of Symbolic Logic* **86**(3) (2021), 1293–1300.
2. Gabriel Conant and Kyle Gannon, "Remarks on generic stability in independent theories," *Annals of Pure and Applied Logic* **171**(2) (2020), article 102736.
1. Kyle Gannon, "Local Keisler measures and NIP formulas," *The Journal of Symbolic Logic* **84**(3) (2019), 1279–1292.

Other Writing

2. Nikolay Bazhenov, Samuel Braunfeld, and Kyle Gannon, "Random theories," in *Proceedings of the 15th Panhellenic Logic Symposium*, Athens, 2026.
1. Kyle Gannon, "A walk on type space," in *Model theoretic aspects of the notion of independence and dimension*, *RIMS Kôkyûroku* No. 2311 (2025), 45–51.

Grants

- 2025–2028 **National Natural Science Fund of China**; grant no. 12501001;
 2023–2026 **Fundamental Research Funds for the Central Universities**; grant no. 7100604835;

Fellowships and Awards

- 2023 **The Liggett Instructor Award**, *UCLA*, Los Angeles, California.
 2017–2018 **STEM Chateaubriand fellowship**, *Paris-Sud*, Orsay, France.
 2014 **Dunn research fellowship**, *University of Chicago*, Chicago, IL.

Academic Leadership and Organization

PKU Model Theory Seminar

- Mar. 2024–present Organizer, **PKU Model Theory (and Friends) Seminar**, Peking University, Beijing, China.

AI in Model Theory Discussion Panel

- Oct. 15, 2026 Organizer, **AI in Model Theory Discussion Panel**, with Yatir Halevi and Tingxiang Zou. Online discussion panel on artificial intelligence and the model theory community; **over 300 attendees on Zoom**.

Conference and Reading Seminar Organization

- July 11–16, 2027 Organizer, **IASM–BIRS Five-Day Workshop: Structures and Patterns: Model Theory, Combinatorics, and Geometry**, with Jinhe Ye, Tingxiang Zou, and Will Johnson. IASM, Hangzhou, China (forthcoming).
 June 15–20, 2026 Organizer, **Beijing Model Theory Conference 2026**, with Rizos Sklinos, Wei Li, and Shichang Song. Chinese Academy of Sciences, Beijing, China.
 June 5–7, 2026 Convener, **Chinese Annual Conference on Mathematical Logic 2026**, Tsinghua University, Beijing, China.

- Dec. 20, 2025 Organizer, **DELTA 25**, with Yu Liang. Peking University, Beijing, China.
- Oct. 25–27, 2024 Organizer, **Chinese Annual Conference on Mathematical Logic 2024**, Peking University, Beijing, China.
- Fall 2024 Organizer, **Beijing Model Theory Reading Seminar on o-Minimality**, with Shichang Song. Peking University, Beijing, China.
- July 8–12, 2024 Local organizer, **Beijing Model Theory Conference 2024**, with Rizos Sklinos, Wei Li, and Shichang Song. Chinese Academy of Sciences, Beijing, China.
- Fall 2023 Organizer, **Beijing Model Theory Reading Seminar on Model Theory and Algebraic Geometry**, with Shichang Song. Chinese Academy of Sciences, Beijing, China.

Talks

Conference, Workshop, and Seminar Talks

- Oct. 18–22, 2027 72. **19th Asian Logic Conference**, Chengdu, China (forthcoming).
- May 12–15, 2027 71. **2027 North American Meeting of the Association for Symbolic Logic**, Chicago, USA (forthcoming).
- Jan. 25–29, 2027 70. **Logic @ Maryland: Model Theory**, College Park, Maryland, USA (forthcoming).
- Dec. 11–12, 2026 69. **Logic Meeting on the Occasion of Predrag Tanović's Retirement**, Belgrade, Serbia (forthcoming).
- Dec. 10, 2026 68. **Research Talk**, *University of Belgrade*, Belgrade, Serbia (forthcoming).
- Nov. 11, 2026 67. **Logic Seminar**, *National University of Singapore*, Singapore (forthcoming).
- Nov. 5, 2026 66. **Research Talk**, *University of Hong Kong*, Hong Kong, China (forthcoming).
- Oct. 14–18, 2026 65. **Workshop on Algebra and Logic**, *Nanjing University*, Nanjing, China.
- Aug. 26, 2026 64. **Model Theory Seminar**, *Universidad de los Andes*, Bogotá, Colombia.
- Aug. 7, 2026 63. **Mathematical Logic Seminar**, *Yonsei University*, Seoul, South Korea.
- Aug. 4, 2026 62. **Model Theory Seminar**, *Changwon National University*, Changwon, South Korea.
- June 3–4, 2026 61. **Fundamental and Applied Issues in Mathematics, Mechanics, and Computer Science**, Karaganda, Kazakhstan.
- June 1–2, 2026 60. **Asian Logic Curyltai**, Astana, Kazakhstan.
- May 25, 2026 59. **Research Talk**, *Dalian University of Technology*, Dalian, China.
- May 4, 2026 58. **Logic Colloquium**, *UCLA*, Los Angeles, California, USA.
- Apr. 2, 2026 57. **Logic Seminar**, *Nanjing University*, Nanjing, China.
- Apr. 11, 2026 56. **Third Beijing–Tianjin–Hebei Mathematical Society Joint Academic Conference**, Beijing, China.
- Feb. 24, 2026 55. **Logic Seminar**, *University of Illinois Chicago*, Chicago, Illinois, USA.
- Feb. 2026 54. **Model Theory Seminar**, *Uniwersytet Wrocławski*, Wrocław, Poland.
- Feb. 6, 2026 53. **Algebra Seminar**, *TU Dresden*, Dresden, Germany.
- Feb. 4, 2026 52. **Combinatorial Group Seminar**, *Czech Academy of Sciences*, Prague, Czechia.
- Jan. 30, 2026 51. **Logic Seminar**, *Mathematical Institute of the Serbian Academy of Sciences and Arts*, Belgrade, Serbia.
- Jan. 27, 2026 50. **ISU Logic Seminar**, *Iowa State University*, Ames, Iowa, USA (online).
- Jan. 20, 2026 49. **Taimanov Seminar on Model Theory**, *L. N. Gumilyov Eurasian National University*, Astana, Kazakhstan.
- Nov. 24, 2025 48. **Model Theory and Interactions in the Yangtze Delta**, Nanjing and Shanghai, China.
- Nov. 12, 2025 47. **Jerusalem Logic Seminar**, *The Hebrew University of Jerusalem*, Jerusalem, Israel (online).

- Oct. 29, 2025 46. **Nankai Logic Colloquium**, *Nankai University*, Tianjin, China.
- Sept. 6, 2025 45. Δ_{24} **Logic Workshop**, Hohhot, China.
- Aug. 5, 2025 44. **Fudan Conference on Mathematical Logic**, Shanghai, China.
- June 27, 2025 43. **Eighth Kazakh–French Logical Colloquium**, Astana, Kazakhstan.
- 2025 42. **Mathematical Logic Seminar**, *Institute for Research in Fundamental Sciences (IPM)*, Tehran, Iran (online).
- May 30, 2025 41. **Logic Seminar**, *Nanjing University*, Nanjing, China.
- Apr. 28, 2025 40. **Research Talk**, *Xiamen University Malaysia*, Malaysia.
- Apr. 2, 2025 39. **One-hour Mathematical Lecture Series**, *Peking University*, Beijing, China.
- Feb. 4, 2025 38. **Logic Seminar**, *University of Illinois Chicago*, Chicago, Illinois, USA.
- Jan. 14, 2025 37. **World Logic Day Workshop 2025**, Astana, Kazakhstan (online).
- Jan. 3, 2025 36. **Nankai Logic Colloquium**, *Nankai University*, Tianjin, China.
- Dec. 4, 2024 35. **RIMS Model Theory Workshop 2024**, Kyoto, Japan.
- Nov. 9, 2024 34. Δ_{22} **Logic Workshop**, Shanghai, China.
- Oct. 17, 2024 33. **Logic Seminar**, *University of Oxford*, Oxford, UK.
- Oct. 16, 2024 32. **Models Seminar**, *University of Leeds*, Leeds, UK.
- Oct. 7, 2024 31. **Oberseminar Logik**, *University of Bonn*, Bonn, Germany.
- Aug. 9, 2024 30. **Logic Seminar**, *Mathematical Institute of the Serbian Academy of Sciences and Arts*, Belgrade, Serbia.
- July 25, 2024 29. **AMS–UMI International Joint Meeting—Special Session on Model Theory**, Palermo, Italy.
- Mar. 27, 2024 28. **Logic Seminar**, *National University of Singapore*, Singapore.
- Jan. 26, 2024 27. **Model Theory Seminar**, *Uniwersytet Wrocławski*, Wrocław, Poland.
- Jan. 16, 2024 26. **Geometry Seminar**, *TU Dresden*, Dresden, Germany.
- 2023 25. **Colloquia & Seminars**, *Academy of Mathematics and Systems Science, Chinese Academy of Sciences*, Beijing, China.
- Nov. 29, 2023 24. **Logic Colloquium**, *UCLA*, Los Angeles, California, USA.
- Nov. 12, 2023 23. **2023 Chinese Annual Conference on Mathematical Logic**, Zhuhai, China.
- Oct. 17, 2023 22. **Logic Seminar**, *Peking University Department of Philosophy*, Beijing, China.
- Aug. 14, 2023 21. **2023 Fudan Conference on Mathematical Logic**, Shanghai, China.
- July 27, 2023 20. **Beijing Logic Meeting 2023**, Beijing, China.
- Apr. 4, 2023 19. **Logic Seminar**, *University of Maryland*, College Park, Maryland, USA.
- Mar. 26, 2023 18. **2023 North American Annual Meeting of the Association for Symbolic Logic—Model Theory Session**, Irvine, California, USA.
- Feb. 21, 2023 17. **BIRS Workshop on Neostability**, Banff, Canada.
- Nov. 29, 2022 16. **Model Theory Seminar**, *University of Notre Dame*, Notre Dame, Indiana, USA.
- Sept. 6, 2022 15. **Logic Seminar**, *The Ohio State University*, Columbus, Ohio, USA.
- June 20–25, 2022 14. **Model Theory and Applications**, Cetraro, Italy.
- Apr. 6, 2022 13. **JMM–ASL Special Session on the Model-theoretic Classification Program**, online.
- 2021 12. **Logic Seminar**, *University of Warsaw*, Warsaw, Poland (online).
- Nov. 16, 2021 11. **Logic Seminar**, *University of Maryland*, College Park, Maryland, USA.
- Nov. 11, 2021 10. **Model Theory Seminar**, *Fields Institute*, Toronto, Canada (online).
- Apr. 27, 2021 9. **Model Theory Seminar**, *University of Notre Dame*, Notre Dame, Indiana, USA (online).

- Jan. 8, 2020 8. **Logic Seminar**, *The Hebrew University of Jerusalem*, Jerusalem, Israel.
- Oct. 8, 2019 7. **Logic Seminar**, *University of Illinois at Chicago*, Chicago, Illinois, USA.
- Sept. 14, 2019 6. **Special Session on Model Theory, 2019 AMS Fall Central Sectional Meeting**,
University of Wisconsin–Madison, Madison, Wisconsin, USA.
- 2019 5. **Logic Seminar**, *University of Illinois at Urbana–Champaign*, Champaign, Illinois,
USA.
- Apr. 13, 2019 4. **Graduate Student Conference in Logic XX**, *University of Illinois at Chicago*,
Chicago, Illinois, USA.
- 2018 3. **Caltech–UCLA Logic Seminar (Cabal)**, *UCLA*, Los Angeles, California, USA.
- Oct. 23, 2018 2. **Logic Seminar**, *University of Wisconsin–Madison*, Madison, Wisconsin, USA.
- Apr. 8–9, 2017 1. **Graduate Student Conference in Logic XVIII**, *University of Illinois at Urbana–
Champaign*, Champaign, Illinois, USA.

Teaching

- 2023–Present **Course instructor**, *Peking University*, Beijing, China.
 - 21. Fall 2026: Mathematical Logic.
 - 20. Spring 2026: Model Theory.
 - 19. Fall 2025: Topics in Logic II (Limit Structures)
 - 18. Spring 2025: Topics in Logic I (O-minimality)
 - 17. Spring 2024: Model Theory.
- 2020–2023 **Course instructor**, *UCLA*, Los Angeles, CA.
 - 16. Spring 2023: Mathematical Modeling (MATH 142)
 - 15. Winter 2023: Linear and nonlinear systems of differential equations (MATH 134)
 - 14. Fall 2022: Linear and nonlinear systems of differential equations (MATH 134)
 - 13. Summer 2022: Linear algebra (MATH 115A), online.
 - 12. Spring 2022: Mathematical logic (MATH 114L)
 - 11. Winter 2022: Integration and infinite series (MATH 31B), hybrid.
 - 10. Fall 2021: Logic seminar (MATH 285D)
 - 9. Spring 2021: Discrete math (MATH 61), online.
 - 8. Winter 2021: Analysis (MATH 131A), online.
 - 7. Fall 2020: Integration and Infinite Series (MATH 31B), online.
- 2017–2020 **Course instructor**, *University of Notre Dame*, Notre Dame, IN.
 - 6. Spring 2020: Beginning Logic (MATH 10130)
 - 5. Fall 2017: Elements of Calculus I (MATH 10250)
- 2016–2020 **Teaching Assistant**, *University of Notre Dame*, Notre Dame, IN.
 - 4. Fall 2019: Linear algebra and differential equations (MATH 20580), Head TA.
 - 3. Spring 2019: Honors Calculus IV (MATH 20860), Head TA.
 - 2. Spring 2017: Linear algebra and differential equations (MATH 20580), TA.
 - 1. Spring 2016: Calculus A (MATH 10350), TA.

Service

Mentorship and Thesis Supervision

- 2026 **Thesis Defense Committee Member**, Chuyin Jiang, UCLA, Los Angeles, California,
USA.
- Graduate Admissions Interviewer**, BICMR, Peking University, Beijing, China.
- Undergraduate Thesis Supervisor**, Yin Xinyu, Peking University; thesis: *Model Theory
of Valued Fields*.
- Undergraduate Thesis Supervisor**, He Yuanhao, Peking University; thesis: *From
Classical Model Theory to Continuous Model Theory*.

- 2025 **PACE REU Mentor**; project: "Enumerations of finite distance monoids".
Undergraduate Thesis Supervisor, Xie Tianxiang, Peking University; thesis: *Model Theory and Algebraic Geometry*.
- 2024 **PACE REU Mentor**; project: "Model Theory and the Braid Group."
- 2022 **Reading Course Instructor**; student: Omar Allwazzani; topic: building models by games.
Instructor, CSU Summer Bridge Program; week-long intensive course for master's students from California State University campuses preparing for doctoral study; topic: discretely amenable groups.
Instructor, UCLA Mathematics Summer Bootcamp; six-week program for incoming graduate students preparing for the basic examination; topic: linear algebra.
- 2019 **Directed Reading Program Mentor**, Tianyi Wang, University of Notre Dame; topic: ergodic theory.
- 2016 **Directed Reading Program Mentor**, Daniel O'Connor, University of Notre Dame; topic: ergodic theory.
- University and Public Engagement
- Forthcoming **Beijing International Goodwill Ambassador**, Beijing, China.
- 2026 **Chinese-Language Speaker**, *Happy Chinese*, Zhongguancun Forum, Beijing, China.
Representative, Zhongguancun Forum, Beijing, China.
Contributing Author, *Peking University's Foreign Teacher Mr. Yang*, Peking University.
- 2025 **Exchange Program Interviewer**, Peking University, Beijing, China.
Outreach Speaker, Faculty-Student Exchange Meeting in Fundamental Mathematics, School of Mathematical Sciences, Peking University, Beijing, China.
English-Language Host, *Happy Chinese Award Ceremony*, Beijing, China.
Outreach Speaker, One-Hour Mathematical Lecture Series, BICMR, Peking University, Beijing, China.
Outreach Speaker, Liaoyuan Salon, Tsinghua University, Beijing, China.
- 2024 **Outreach Speaker**, Faculty-Student Exchange Meeting in Fundamental Mathematics, School of Mathematical Sciences, Peking University, Beijing, China.