

Junehyuk Jung

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Positions

Brown University, Department of Mathematics <i>Professor of Mathematics</i>	Providence, RI 7/2026–
Google DeepMind <i>Research Scientist</i>	Mountain View, CA 4/2024–
Brown University, Department of Mathematics <i>Associate Professor of Mathematics</i>	Providence, RI 7/2022–6/2026
Brown University, Department of Mathematics <i>Assistant Professor of Mathematics</i>	Providence, RI 7/2020–6/2022
Texas A&M University, Department of Mathematics <i>Assistant Professor</i>	College Station, TX 8/2017–6/2020
KAIST, Department of Mathematical Science <i>Researcher</i>	Daejeon, South Korea 6/2013–7/2016

Other Positions

Korea Institute for Advanced Study (KIAS) <i>KIAS Scholar</i>	Seoul, South Korea 7/2025–6/2026
Logical Intelligence <i>Advisory Board Member</i>	Palo Alto, CA 7/2025–5/2026
University of California Berkeley, Department of Mathematics <i>Visitor</i>	Berkeley, CA 7/2023–7/2024
Rice University, Department of Mathematics <i>Adjunct Assistant Professor</i>	Houston, TX 7/2019–3/2020
Yale University, Department of Mathematics <i>Visitor</i>	New Haven, CT 4/2017–6/2017
University of California Berkeley, Department of Mathematics <i>Visitor</i>	Berkeley, CA 2/2017–3/2017
Northwestern University, Mathematics Department <i>Visitor</i>	Evanston, IL 10/2016–11/2016
Institute for Advanced Study, School of Mathematics <i>Member</i>	Princeton, NJ 9/2014–12/2015
Northwestern University, Mathematics Department <i>Visiting Postdoctoral Fellow</i>	Evanston, IL 9/2013–12/2013

Education

Princeton University <i>Doctor of Philosophy</i> Mathematics Advisor: Peter C. Sarnak	Princeton, NJ 9/2008–6/2013
University of Chicago <i>Master of Science</i>	Chicago, IL 9/2006–8/2008

Mathematics
University of Chicago
Bachelor of Arts
Mathematics with Honors

Chicago, IL
9/2005–8/2008

Honors and Awards

National Science Foundation grant DMS-2522850

Awarded, \$800,000

9/2025–8/2028

Simons Fellows in Mathematics

Awarded

7/2023–6/2024

National Science Foundation grant DMS-1900993

Awarded, \$150,000

7/2019–6/2023

Sloan Research Fellowship

Awarded, \$ 70,000

7/2019–8/2023

Posco TJ Park Science Fellowship

Awarded, \$ 35,000 per year

3/2014–2/2016

Samsung Scholarship for Graduate Studies

Awarded, at \$ 50,000 per year

9/2008–6/2013

Paul R. Cohen Memorial Prize

Awarded

6/2008

Kwanjeong Scholarship for College Students

Awarded, \$ 50,000 per year

9/2005–8/2008

Korea Science and Engineering Foundation Scholarship for Undergraduate Studies

Gratefully declined in order to observe institutional regulation

2005

William Lowell Putnam Mathematics Competition

One of three representatives of University of Chicago

2005–2007

Honorable Mention, Team Rank 5, and Top 24 Individuals in 2005, 2006, and 2007

International Mathematical Olympiad

Gold Medal

7/2003

Publications

Published/Accepted.....

[21]: “Towards Robust Mathematical Reasoning”

(as a corresponding author with Thang Luong, Dawsen Hwang, Hoang H. Nguyen, Golnaz Ghiasi, Yuri Chervonyi, Insuk Seo, Junsu Kim, Garrett Bingham, Jonathan Lee, Swaroop Mishra, Alex Zhai, Clara Huiyi Hu, Henryk Michalewski, Jimin Kim, Jeonghyun Ahn, Junhwi Bae, Xingyou Song, Trieu H. Trinh, Quoc V. Le)

Proceedings of Empirical Methods in Natural Language Processing (EMNLP) (2025)

[20]: “Gold-medalist Performance in Solving Olympiad Geometry with AlphaGeometry2”

(with Yuri Chervonyi, Trieu H. Trinh, Miroslav Olšák, Xiaomeng Yang, Hoang Nguyen, Marcelo Menegali, Vikas Verma, Quoc V. Le, and Thang Luong)

arXiv:2502.03544 [cs.AI], to appear *JMLR*

[19]: “2-nodal domain theorems for higher dimensional circle bundles”

(with Steve Zelditch)

J. Spectr. Theory 14 (2024), no. 4, pp. 1451–1474.

[18]: “Intersecting geodesics on the modular surface”

(with Naser T. Sardari)

Algebra Number Theory 17 (2023), no. 7, 1325–1357.

- [17]: “Non-vanishing of symmetric cube L -functions”
(with Jeff Hoffstein and Min Lee)
J. Lond. Math. Soc. (2) 107 (2023), no. 1, 153–188.
- [16]: “Embedding closed totally geodesic surfaces in Bianchi orbifolds”
(with Alan Reid)
arXiv:2003.05427 [math.NT], to appear *Math. Res. Lett.*
- [15]: “Topology of the nodal set of random equivariant spherical harmonics on $\mathbb{S}^3$ ”
(with Steve Zelditch)
Int. Math. Res. Not. IMRN(2021), no. 11, 8521–8549.
- [14]: “Asymptotic trace formula for the Hecke operators”
(with Simon Marshall and Naser T. Sardari)
Math. Ann. 378 (2020), no. 1-2, 513–557.
- [13]: “Boundedness of the number of nodal domains for eigenfunctions of generic Kaluza–Klein 3-folds”
(with Steve Zelditch)
Ann. Inst. Fourier (Grenoble) 70 (2020), no. 3, 971–1027.
- [12]: “Bounding the number of nodal domains of eigenfunctions without singular points on the square”
Israel J. Math. 238 (2020), no. 1, 1–11.
- [11]: “On the growth of the number of totally geodesic surfaces in some hyperbolic 3-manifolds”
J. Number Theory 202 (2019), 160–175.
- [10]: “Sign Changes of the Eisenstein Series on the Critical Line”
(with Matthew Young)
Int. Math. Res. Not. IMRN(2019), no. 3, 641–672.
- [9]: “Discrete behavior in information-constrained tracking problems and portfolio choice”
(with Jeong-ho Kim, Filip Matejka, and Christopher A. Sims)
Rev. Econ. Stud. 86 (2019), no. 6, 2643–2667.
- [8]: “On tiling the integers with 4-sets of the same gap sequence”
(with Ilkyoo Choi and Minki Kim)
Discrete Math. 341 (2018), no. 4, 957–964.
- [7]: “Quantum unique ergodicity and the number of nodal domains of eigenfunctions”
(with Seung uk Jang)
J. Amer. Math. Soc. 31 (2018), no. 2, 303–318.
- [6]: “On sparsity of positive-definite automorphic forms within a family”
(Appendix A by Junehyuk Jung and Sug Woo Shin)
J. Anal. Math. 129 (2016), 105–138.
- [5]: “Quantitative quantum ergodicity and the nodal domains of Maass-Hecke cusp forms ”
Comm. Math. Phys. 348 (2016), no. 2, 603–653.
- [4]: “Number of nodal domains and singular points of eigenfunctions of negatively curved surfaces with an isometric involution”
(with Steve Zelditch)
J. Differential Geom. 102 (2016), no. 1, 37–66.
- [3]: “Number of nodal domains of eigenfunctions on non-positively curved surfaces with concave boundary”
(with Steve Zelditch)
Math. Ann. 364 (2016), no. 3-4, 813–840.
- [2]: “Sharp bounds for the intersection of nodal lines with certain curves ”
J. Eur. Math. Soc. (JEMS) 16 (2014), no. 2, 273–288.
- [1]: “Pretentiously detecting power cancellation”
(with Robert J. Lemke Oliver)
Math. Proc. Cambridge Philos. Soc. 154 (2013), no. 3, 481–498.

Selected Preprints

[6]: “Aletheia tackles FirstProof autonomously”

Tony Feng, Junehyuk Jung, Sang-hyun Kim, Carlo Pagano, Sergei Gukov, Chiang-Chiang Tsai, David Woodruff, Adel Javanmard, Aryan Mokhtari, Dawsen Hwang, Yuri Chervonyi, Jonathan N. Lee, Garrett Bingham, Trieu H. Trinh, Vahab Mirrokni, Quoc V. Le, Thang Luong
arXiv:2602.21201 [cs.AI]

[5]: “Towards Autonomous Mathematics Research”

Tony Feng, Trieu H. Trinh, Garrett Bingham, Dawsen Hwang, Yuri Chervonyi, Junehyuk Jung, Joonkyung Lee, Carlo Pagano, Sang-hyun Kim, Federico Pasqualotto, Sergei Gukov, Jonathan N. Lee, Junsu Kim, Kaiying Hou, Golnaz Ghiasi, Yi Tay, YaGuang Li, Chenkai Kuang, Yuan Liu, Hanzhao Lin, Evan Zheran Liu, Nigamaa Nayakanti, Xiaomeng Yang, Heng-Tze Cheng, Demis Hassabis, Koray Kavukcuoglu, Quoc V. Le, Thang Luong
arXiv:2602.10177 [cs.LG]

[4]: “Semi-Autonomous Mathematics Discovery with Gemini: A Case Study on the Erdős Problems”

Tony Feng, Trieu Trinh, Garrett Bingham, Jiwon Kang, Shengtong Zhang, Sang-hyun Kim, Kevin Barreto, Carl Schildkraut, Junehyuk Jung, Jaehyeon Seo, Carlo Pagano, Yuri Chervonyi, Dawsen Hwang, Kaiying Hou, Sergei Gukov, Cheng-Chiang Tsai, Hyunwoo Choi, Youngbeom Jin, Wei-Yuan Li, Hao-An Wu, Ruey-An Shiu, Yu-Sheng Shih, Quoc V. Le, Thang Luong
arXiv:2601.22401 [cs.AI]

[3]: “Gemini 2.5: Pushing the Frontier with Advanced Reasoning, Multimodality, Long Context, and Next Generation Agentic Capabilities”

(one of the 3309 authors from Gemini Team, Google)

arXiv:2507.06261 [cs.CL]

[2]: “Gemini 1.5: Unlocking multimodal understanding across millions of tokens of context”

(one of the 1136 authors from Gemini Team, Google)

arXiv:2403.05530 [cs.CL]

[1]: “Linnik problem for Maass–Hecke cusp forms and effective multiplicity one theorem”

(with Min Lee)

arXiv:2502.16046 [math.NT], submitted

Patents

[1]: “Neuro-symbolic system for solving reasoning tasks”

(with Yuri Chervonyi, Trieu H. Trinh, Miroslav Olšák, Xiaomeng Yang, Hoang Nguyen, Quoc V. Le, and Thang Luong)

US Patent Pending No. 19/041.882, filed Jan 30, 2025

Talks and lecture series

Public Lectures

08/21/2025: “RAINES Summer Seminar : Recent Advances in AI Problem Solving”

Korean Consulate General in Boston, Newton, MA, USA

08/07/2025: “AlphaGeometry and automated reasoning”

Korea Institute for Advanced Study (KIAS), Seoul, South Korea

03/18/2025: “ICERM Public Lecture: AlphaGeometry: a step toward automated math reasoning”

ICERM, Providence, RI, USA

02/08/2020: “Aggieland Saturday”

Texas A&M University, College Station, TX, USA

08/17/2018: “Summer Educational Enrichment in Math (SEE-Math)”

Texas A&M University, College Station, TX, USA

Panelist.....

03/04/2026: Brainstorm: AI Crossing the Disciplines Conversation Series
JNBC, Providence, RI, USA

07/16/2025: International Mathematical Olympiad 2025
Sunshine Coast Convention Centre, Sunshine Coast, Australia

12/14/2024: 4th MATH-AI Workshop at NeurIPS'24
Vancouver Convention Centre, Vancouver, BC, Canada

Invited Talks.....

03/04/2026: "Mathematical research using AI: where we are now and where we are headed"
Math Department Colloquium
Brown University, Providence, RI, USA

09/16/2025: "AlphaGeometry: a step toward automated math reasoning"
The Geometry of Machine Learning
CMSA, Harvard University, Cambridge, MA, USA

01/22/2024: "Zelditch's trace formula and effective Bowen's theorem"
Analytic Number Theory Seminar
Stanford University, Palo Alto, CA, USA

12/19/2023: "Zelditch's trace formula and effective Bowen's theorem"
Conference: Hyperbolic Geometry of Numbers
KIAS, Seoul, South Korea

11/07/2023: "Zelditch's trace formula and effective Bowen's theorem"
Arizona Algebra and Number Theory Seminar
University of Arizona, Tucson, AZ, USA

10/14/2023: "Zelditch's trace formula and effective Bowen's theorem"
Spectral Theory and Applications
Texas A&M University, College Station, TX, USA

09/25/2023: "On the sparsity of positive-definite automorphic forms"
Arithmetic Geometry and Number Theory RTG Seminar
University of California, Berkeley, Berkeley, CA, USA

09/25/2023: "Background on automorphic forms, L-functions, and equidistribution. "
Arithmetic Geometry and Number Theory RTG Seminar: Pre-talk
University of California, Berkeley, Berkeley, CA, USA

09/18/2023: "Nodal domains of equivariant eigenfunctions on Kaluza-Klein 3-folds"
Analysis & PDE Seminar
University of California, Berkeley, Berkeley, CA, USA

05/23/2023: "Chaos and the geometry of the nodal set of eigenfunctions of the Laplacian"
PDT Research Colloquium
PDT Partners, New York, NY, USA

05/19/2023: "The arithmetic of totally geodesic surfaces on Bianchi orbifolds"
Dynamics, Rigidity and Arithmetic in Hyperbolic Geometry
ICERM, Providence, RI, USA

03/23/2023: "Equidistribution problems of closed geodesics on hyperbolic surfaces"
QVNTS
Concordia University, Montreal, Quebec, Canada

02/28/2023: "The arithmetic of totally geodesic surfaces on Bianchi orbifolds"
Algebra and Number Theory seminar
Dartmouth College, Hanover, NH, USA

10/27/2022: "Ergodicity and the number of nodal domains of eigenfunctions of the Laplacian"
Brandeis-Harvard-MIT-Northeastern Joint Mathematics Colloquium

Brandeis University, Waltham, MA, USA

01/27/2020: "Ergodicity and the number of nodal domains of eigenfunctions of the Laplacian"
Special Colloquium

Brown University, Providence, RI, USA

12/13/2019: "Ergodicity and the number of nodal domains of eigenfunctions of the Laplacian"
Colloquium

Rice University, Houston, TX, USA

10/11/2019: "Nodal domains of equivariant eigenfunctions on Kaluza-Klein 3-folds"

Analysis and Mathematical Physics Seminar Series

Institute for Advanced Study, Princeton, NJ, USA

10/02/2019: "Classification of embedded closed totally geodesic surfaces in Bianchi 3-folds"
Topology Seminar

Korea Institute for Advanced Study (KIAS), Seoul, South Korea

09/25/2019: "Topology of the nodal set of spherical harmonics on S^3 "

Dynamics and Number Theory Seminar

Seoul National University, Seoul, South Korea

05/21/2019: "On the sparsity of positive-definite automorphic forms"
Heilbronn Number Theory Seminar

University of Bristol, Bristol, UK

02/19/2019: "Nodal geometry of Maass-Hecke eigenforms on compact arithmetic hyperbolic triangles"
Algebraic Geometry and Number Theory Seminar

Rice University, Houston, TX, USA

01/15/2019: "Large discrepancy in the vertical Sato-Tate theorem"

Analytic Number Theory Seminar

Stanford University, Stanford, CA, USA

01/07/2019: "Distribution of Hecke eigenvalues: large discrepancy"

Korea University Algebra Seminar

Korea University, Seoul, South Korea

12/28/2018: "Counting immersed totally geodesic surfaces via arithmetic means"

Contemporary Number Theory Workshop

KAIST, Daejeon, South Korea

12/27/2018: "Distribution of Hecke eigenvalues: large discrepancy"

Contemporary Number Theory Workshop

KAIST, Daejeon, South Korea

12/21/2018: "Nodal counting of eigenfunctions of Laplace-Beltrami operator on a principal S^1 -bundle with Kaluza-Klein metrics"

CMC Seminar

KIAS, Seoul, South Korea

12/14/2018: "Ergodicity and nodal counting of eigenfunctions on 3-manifolds"

Geometry, Topology & Dynamics Seminar

Seoul National University, Seoul, South Korea

07/23/2018: "Ergodicity and the number of nodal domains of Laplacian eigenfunctions"

Analytic Number Theory and Quantum Chaos Workshop

Queen Mary University of London, London, UK

07/17/2018: "Boundedness of the number of nodal domains of eigenfunctions"

18w5002 Around Quantum Chaos

BIRS, Banff, Canada

07/04/2018: "Quantum Unique Ergodicity and the number of nodal domains of automorphic forms"

Analytic Number Theory Seminar

EPFL, Laussane, Switzerland

04/11/2018: "Quantum Unique Ergodicity and the number of nodal domains of automorphic forms"

Number Theory Seminar

University of Wisconsin - Madison, Madison, WI, USA

01/24/2017: "On nodal domains of eigenfunctions in chaotic quantum systems"

Colloquium

Texas A&M University, College Station, TX, USA

01/09/2017: "Quantitative Quantum Ergodicity on the modular surface and its applications"

Number Theory Seminar

Stanford University, Stanford, CA, USA

11/14/2016: "Eigenfunctions on arithmetic hyperbolic surfaces"

Analysis Seminar

Northwestern University, Evanston, IL, USA

07/12/2016: "On nodal domains of eigenfunctions in chaotic quantum system"

Second French-Korean Conference in Mathematics

Université de Bordeaux, Bordeaux, France

03/16/2016: "Nodal domains of eigenfunctions on chaotic billiards"

SNU Geometry and Topology Seminar

Seoul National University, Seoul, South Korea

02/15/2016: "On arithmetic quantum chaos: introduction and recent progress"

The 5th Number Theory Festival

Kyungnam University, Changwon, South Korea

08/27/2015: "Quantum Unique Ergodicity and the number of nodal domains of eigenfunctions"

East Asia Number Theory Conference

Elysian Gangchon Resort, Chuncheon, South Korea

06/21/2015: "Quantum Ergodicity and the number of nodal domains of eigenfunctions"

ASARC Number Theory Workshop

Tongyeong Marina Resort, Tongyeong, South Korea

06/04/2015: "Quantum Ergodicity and the number of nodal domains of eigenfunctions"

Montreal Analysis Seminar

McGill University, Montréal, QC, Canada

04/07/2015: "Quantum ergodicity and the number of nodal domains of eigenfunctions"

TAMU number theory seminar

Texas A&M University, College Station, TX, USA

02/21/2015: "Quantum ergodicity and the number of nodal domains of eigenfunctions"

Special day on Complex Geometry and Analysis on real analytic Riemannian manifolds

Northwestern University, Evanston, IL, USA

08/05/2014: "An upper bound for intersection of nodal lines with a fixed horocycle"

Pan Asia Number Theory 2014

Postech, Pohang, South Korea

03/03/2014: "Nodal Domains and Eigenfunctions of Negatively Curved Surfaces"

Quantum Monday

Institute for Basic Science, Pohang, South Korea

02/28/2014: "Nodal Domains and Eigenfunctions of Negatively Curved Surfaces"

Lecture Series on Geometry and Analysis

Korea Institute for Advanced Study (KIAS), Seoul, South Korea

02/22/2014: "Lindelof Hypothesis on average for triple product L-functions and its application"

Number Theory Festival

KAIST, Daejeon, South Korea

01/22/2014: "On the sparsity of positive-definite automorphic forms within a family"

East Asia Number Theory Conference

Nishijin Plaza, Fukuoka, Japan

01/17/2014: "Zero density estimates for families of automorphic L-functions of GL_1 and GL_2 over $\mathbb{Q}$ "

Applications of homotopy method in number theory

Yonsei University, Seoul, South Korea

12/16/2013: "Nodal Domains and Eigenfunctions of Negatively Curved Surfaces"

The 17th Midrasha Mathematicae

Israel Institute for Advanced Studies (IIAS), Jerusalem, Israel

11/25/2013: "Nodal Domains and Eigenfunctions of Negatively Curved Surfaces"

Algebra Seminar

Brown University, Providence, RI, USA

10/29/2012: "An upper bound for intersection of nodal lines with a fixed horocycle"

NU Number Theory Seminar

Northwestern University, Evanston, IL, USA

07/26/2012: "On the sparsity of positive-definite automorphic forms within a family"

Number Theory Seminar

Korea Institute for Advanced Study (KIAS), Seoul, South Korea

Contributed Talks.....

09/15/2025: "On the dimension of joint eigenspaces of Hecke operators"

Brown Algebra Seminar

Brown University

10/20/2022: "Non-vanishing of symmetric cube automorphic L-functions"

2022 Global KMS International Conference

Online

05/02/2022: "The arithmetic of totally geodesic surfaces on Bianchi orbifolds"

Brown Algebra Seminar

Brown University

08/12/2021: "Boundedness of the number of nodal domains of equivariant eigenfunctions"

International Workshop on Operator Theory and its Applications 2021 Special Session 5

Online

02/01/2021: "Intersecting geodesics on the modular surface"

Brown Algebra Seminar

Brown University

12/08/2020: "Intersections of geodesics on the modular surface"

2020 CMS Winter Meeting Scientific Session on Equidistribution on Arithmetic Manifolds

Online

09/21/2020: "On the sparsity of positive-definite automorphic forms"

Brown Algebra/Number Theory Seminar

Brown University

09/03/2020: "Geometry and analytic number theory"

Meet the faculty!

Brown University

01/16/2020: "On the sparsity of positive-definite automorphic forms"

AMS Special Session on Analytic Theory of Automorphic Forms and L-Functions, I

Colorado Convention Center, Denver, CO, USA

09/15/2019: "Bounding the dimension of a joint eigenspace of Laplacian and finitely many Hecke operators"

AMS Sectional Meeting-Automorphic Forms and L-Functions, III

University of Wisconsin-Madison

05/03/2018: "Boundedness of the number of nodal domains of eigenfunctions"

Mathematical Physics and Harmonic Analysis Seminar

Texas A&M University

10/18/2017: "Counting immersed totally geodesic surfaces via arithmetic means"

Number Theory Seminar

Texas A&M University

01/30/2017: "Quantum Unique Ergodicity and the number of nodal domains of eigenfunctions"

Group actions and Dynamics seminar

Yale University

01/08/2016: "Quantum unique ergodicity and the number of nodal domains of eigenfunctions"

AMS Special Session on Global Harmonic Analysis

Washington State Convention Center, Seattle, WA, USA

03/16/2015: "Quantum ergodicity and the number of nodal domains of eigenfunctions"

IAS Spectral Geometry Seminar

Institute for Advanced Study, Princeton, NJ, USA

03/03/2015: "Quantum ergodicity and the number of nodal domains of eigenfunctions"

Berkeley Harmonic Analysis and Differential Equation Student Seminar

University of California, Berkeley, Berkeley, CA, USA

09/25/2014: "Counting the nodal domains of the Laplacian eigenfunctions on surfaces"

Short talks by postdoctoral members

Institute for Advanced Study, Princeton, NJ, USA

05/26/2014: "Automorphic L -functions and conjectures"

Colloquium for undergraduate students

KAIST, Daejeon, South Korea

10/22/2013: "Number of Nodal Domains of Eigenfunctions of Negatively Curved Surfaces with an Isometric Involution"

ASARC Seminar

KAIST, Daejeon, South Korea

06/28/2013: "Restricted L^p estimates and the zero set of Maass forms"

ASARC Seminar

KAIST, Daejeon, South Korea

Lecture Series

03/2021: 'Equidistribution problems of closed geodesics on hyperbolic surfaces (part 1&2)'

Geometry, Topology & Dynamics Seminar

Korea Institute for Advanced Study (KIAS), Seoul, South Korea

03/2019: "Counting primitive totally geodesic submanifolds 1&2"

Number Theory Lecture Series

Korea Institute for Advanced Study (KIAS), Seoul, South Korea

06/2016: "Recent theory on arithmetic quantum chaos"

Number Theory Lecture Series

Korea Institute for Advanced Study (KIAS), Seoul, South Korea

05/2015: "Introduction to quantum ergodicity and the number of nodal domains of eigenfunctions"

Colloquium

Korea University, Seoul, South Korea

07/2014: "Spectral theory of hyperbolic surfaces: arithmetic surfaces and Selberg's eigenvalue conjecture"

PMI Intensive Lecture series in Number Theory

Postech, Pohang, South Korea

05/2014–06/2014: "Spectral theory of hyperbolic surfaces: arithmetic surfaces and Selberg's eigenvalue conjecture"

Special Lecture Series

Yonsei University, Seoul, South Korea