



Richard Taylor

Barbara Kimball Browning Professor in the School of Humanities and Sciences
Mathematics

Bio

ACADEMIC APPOINTMENTS

- Professor, Mathematics

Teaching

COURSES

2022-23

- Groups and Rings: MATH 120 (Aut)
- Modern Algebra I: MATH 210A (Aut)
- Topics in Number Theory: MATH 249B (Win)

2021-22

- Groups and Rings: MATH 120 (Aut)
- Modern Algebra I: MATH 210A (Aut)

2020-21

- Modern Algebra I: MATH 210A (Aut)
- Topics in Number Theory: MATH 249B (Win)
- Topics in Number Theory: MATH 249C (Spr)

2019-20

- Modern Algebra I: MATH 210A (Aut)
- Topics in Number Theory: MATH 249B (Win)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Pol van Hoftem

Doctoral Dissertation Advisor (AC)

Derek Khu, Konstantin Miagkov, Lie Qian

Publications

PUBLICATIONS

- **On the rigid cohomology of certain Shimura varieties** *RESEARCH IN THE MATHEMATICAL SCIENCES*
Harris, M., Lan, K., Taylor, R., Thorne, J.
2016; 3
- **Automorphy and irreducibility of some l -adic representations** *COMPOSITIO MATHEMATICA*
Patrikis, S., Taylor, R.
2015; 151 (2): 207–29
- **The image of complex conjugation in l -adic representations associated to automorphic forms** *ALGEBRA & NUMBER THEORY*
Taylor, R.
2012; 6 (3): 405–35
- **A Family of Calabi-Yau Varieties and Potential Automorphy II** *PUBLICATIONS OF THE RESEARCH INSTITUTE FOR MATHEMATICAL SCIENCES*
Barnet-Lamb, T., Geraghty, D., Harris, M., Taylor, R.
2011; 47 (1): 29–98
- **A family of Calabi-Yau varieties and potential automorphy** *ANNALS OF MATHEMATICS*
Harris, M., Shepherd-Barron, N., Taylor, R.
2010; 171 (2): 779–813
- **AUTOMORPHY FOR SOME l -ADIC LIFTS OF AUTOMORPHIC MOD l GALOIS REPRESENTATIONS. II** *PUBLICATIONS MATHÉMATIQUES DE L'IHES, NO 108*
Taylor, R., Ghys, E., Bourgain, J., Connes, A., Deligne, P., Gromov, M., Kontsevich, M., Lafforgue, L., Sullivan, D., Voisin, C.
2008: 183–239
- **AUTOMORPHY FOR SOME l -ADIC LIFTS OF AUTOMORPHIC MOD l GALOIS REPRESENTATIONS** *PUBLICATIONS MATHÉMATIQUES DE L'IHES, NO 108*
Clozel, L., Harris, M., Taylor, R., Ghys, E., Bourgain, J., Connes, A., Deligne, P., Gromov, M., Kontsevich, M., Lafforgue, L., Sullivan, D., Voisin, C.
2008: 1–181