




Rafe Mazzeo

Professor of Mathematics

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Professor, Mathematics

ADMINISTRATIVE APPOINTMENTS

- Szegő Assistant Professor, Stanford University, (1986-1988)
- Department Chair, Stanford University, (2019-2022)
- Assistant Professor, Stanford University, (1988-1992)
- Assistant Professor, University of Washington, (1991-1993)
- Associate Professor, Stanford University, (1992-1997)
- Professor, Stanford University, (1997- present)
- Department Chair, Stanford University, (2007-2010)
- Faculty Director, Stanford Pre-Collegiate Studies and Stanford Online High School, (2010- present)
- Director, Park City Mathematics Institute (Institute for Advanced Study), (2015- present)
- Norman Levinson Fellow, MIT, (1982-1983)
- Postdoctoral Fellow, National Science Foundation, (1987-1990)
- Research Fellow, Alfred P. Sloan Foundation, (1991-1995)
- Young Investigator, National Science Foundation, (1992-1997)
- University Fellow in Undergraduate Education, Louis and Claude Rosenberg Jr. Family Foundation, (2013-2023)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Managing Editor, Communications in Partial Differential Equations (1996 - 2020)
- Member, Editorial Board, AMS series Graduate Studies in Mathematics (2010 - 2016)
- Member, Scientific Advisory Board, American Institute of Mathematics (2010 - present)
- Member, Editorial Board, Annales de l'IHP (2010 - 2018)
- Director, IAS/Park City Mathematics Institute (2015 - present)
- Member, Editorial Board, Notices of the American Mathematical Society (2010 - 2013)
- Member, Scientific Advisory Board, Banff International Research Station (2008 - 2010)
- Member, Organizing Committee, MSRI Semester Spectral Invariants (2001 - 2001)
- Nachdiplom Lectures, ETH Zurich (2004 - 2004)

- Director, Stanford University Math Camp (1995 - 2010)

PROFESSIONAL EDUCATION

- Ph.D., Massachusetts Institute of Technology (1986)
- B.S., Massachusetts Institute of Technology (1982)

LINKS

- Rafe Mazzeo Mathematics: <http://web.stanford.edu/~rmazzeo/cgi-bin/>

Teaching

COURSES

2020-21

- Differential Geometry: MATH 215C (Spr)

2018-19

- Linear Algebra, Multivariable Calculus, and Modern Applications: MATH 51 (Aut)
- Real Analysis: MATH 205B (Win)

STANFORD ADVISEES

Doctoral Dissertation Advisor (AC)

Panagiotis Dimakis, Jared Marx-Kuo

Publications

PUBLICATIONS

- **Manifolds with Many Rarita-Schwinger Fields** *COMMUNICATIONS IN MATHEMATICAL PHYSICS*
Baer, C., Mazzeo, R.
2021
- **FROM THE HITCHIN SECTION TO OPERS THROUGH NONABELIAN HODGE** *JOURNAL OF DIFFERENTIAL GEOMETRY*
Dumitrescu, O., Fredrickson, L., Kydonakis, G., Mazzeo, R., Mulase, M., Neitzke, A.
2021; 117 (2): 223–53
- **THE EXTENDED BOGOMOLNY EQUATIONS WITH GENERALIZED NAHM POLE BOUNDARY CONDITIONS, II** *DUKE MATHEMATICAL JOURNAL*
He, S., Mazzeo, R.
2020; 169 (12): 2281–2335
- **Conical metrics on Riemann surfaces I: The compactified configuration space and regularity** *GEOMETRY & TOPOLOGY*
Mazzeo, R., Zhu, X.
2020; 24 (1): 309–72
- **The KW equations and the Nahm pole boundary condition with knots** *COMMUNICATIONS IN ANALYSIS AND GEOMETRY*
Mazzeo, R., Witten, E.
2020; 28 (4): 871–942
- **Properly embedded minimal annuli in $H(2) \times \mathbb{R}$** *MATHEMATISCHE ANNALEN*
Ferrer, L., Martin, F., Mazzeo, R., Rodriguez, M.
2019; 375 (1-2): 541–94
- **Asymptotic Geometry of the Hitchin Metric** *COMMUNICATIONS IN MATHEMATICAL PHYSICS*
Mazzeo, R., Swoboda, J., Weiss, H., Witt, F.

2019; 367 (1): 151–91

- **Ricci Flow and Volume Renormalizability** *SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS*
Bahuaud, E., Mazzeo, R., Woolgar, E.
2019; 15
- **The extended Bogomolny equations and generalized Nahm pole boundary condition** *GEOMETRY & TOPOLOGY*
He, S., Mazzeo, R.
2019; 23 (5): 2475–2517
- **Hodge theory on Cheeger spaces** *JOURNAL FUR DIE REINE UND ANGEWANDTE MATHEMATIK*
Albin, P., Leichtnam, E., Mazzeo, R., Piazza, P.
2018; 744: 29–102
- **Fredholm theory for elliptic operators on quasi-asymptotically conical spaces** *PROCEEDINGS OF THE LONDON MATHEMATICAL SOCIETY*
Degeratu, A., Mazzeo, R.
2018; 116: 1112–60
- **On the Asymptotic Behavior of Minimal Surfaces in $H^{-2} \times \mathbb{R}$** *INDIANA UNIVERSITY MATHEMATICS JOURNAL*
KloECKner, B. R., Mazzeo, R.
2017; 66 (2): 631–58
- **ENDS OF THE MODULI SPACE OF HIGGS BUNDLES** *DUKE MATHEMATICAL JOURNAL*
Mazzeo, R., Swoboda, J., Weiss, H., Witt, F.
2016; 165 (12): 2227–2271
- **Kahler-Einstein metrics with edge singularities** *ANNALS OF MATHEMATICS*
Jeffres, T., Mazzeo, R., Rubinstein, Y. A.
2016; 183 (1): 95–176
- **COMPLETE WILLMORE SURFACES IN H^{-3} WITH BOUNDED ENERGY: BOUNDARY REGULARITY AND BUBBLING** *JOURNAL OF DIFFERENTIAL GEOMETRY*
Alexakis, S., Mazzeo, R.
2015; 101 (3): 369–422
- **The Moduli Space of Asymptotically Cylindrical Calabi-Yau Manifolds** *COMMUNICATIONS IN MATHEMATICAL PHYSICS*
Conlon, R. J., Mazzeo, R., Rochon, F.
2015; 338 (3): 953–1009
- **A heat trace anomaly on polygons** *MATHEMATICAL PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY*
Mazzeo, R., Rowlett, J.
2015; 159 (2): 303–319
- **Holder regularity of solutions for Schrodinger operators on stratified spaces** *JOURNAL OF FUNCTIONAL ANALYSIS*
Akutagawa, K., Carron, G., Mazzeo, R.
2015; 269 (3): 815–840
- **Initial Data Sets with Ends of Cylindrical Type: I. The Lichnerowicz Equation** *ANNALES HENRI POINCARÉ*
Chrusciel, P. T., Mazzeo, R.
2015; 16 (5): 1231–1266
- **Refined intersection homology on non-Witt spaces** *JOURNAL OF TOPOLOGY AND ANALYSIS*
Albin, P., Banagl, M., Leichtnam, E., Mazzeo, R., Piazza, P.
2015; 7 (1): 105–133
- **L-2-cohomology and complete Hamiltonian manifolds** *JOURNAL OF GEOMETRY AND PHYSICS*
Mazzeo, R., Pelayo, A., Ratiu, T. S.
2015; 87: 305–313
- **RICCI FLOW ON SURFACES WITH CONIC SINGULARITIES** *ANALYSIS & PDE*
Mazzeo, R., Rubinstein, Y. A., Sesum, N.

2015; 8 (4): 839-882

- **The Yamabe problem on stratified spaces** *GEOMETRIC AND FUNCTIONAL ANALYSIS*
Akutagawa, K., Carron, G., Mazzeo, R.
2014; 24 (4): 1039-1079
- **MULTIPLE-LAYER SOLUTIONS TO THE ALLEN-CAHN EQUATION ON HYPERBOLIC SPACE** *PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY*
Mazzeo, R., Saez, M.
2014; 142 (8): 2859-2869
- **Non-CMC solutions of the Einstein constraint equations on asymptotically Euclidean manifolds** *CLASSICAL AND QUANTUM GRAVITY*
Dilts, J., Isenberg, J., Mazzeo, R., Meier, C.
2014; 31 (6)
- **Minimal surfaces with positive genus and finite total curvature in $H^{-2} \times \mathbb{R}$** *GEOMETRY & TOPOLOGY*
Martin, F., Mazzeo, R., Magdalena Rodriguez, M.
2014; 18 (1): 141-177
- **Elliptic Theory of Differential Edge Operators, II: Boundary Value Problems** *INDIANA UNIVERSITY MATHEMATICS JOURNAL*
Mazzeo, R., Vertman, B.
2014; 63 (6): 1911-1955
- **Spectral theory for the Weil-Petersson Laplacian on the Riemann moduli space** *COMMENTARII MATHEMATICI HELVETICI*
Ji, L., Mazzeo, R., Mueller, W., Vasy, A.
2014; 89 (4): 867-894
- **Ricci flow on asymptotically conical surfaces with nontrivial topology** *JOURNAL FUR DIE REINE UND ANGEWANDTE MATHEMATIK*
Isenberg, J., Mazzeo, R., Sesum, N.
2013; 676: 227-248
- **Degenerate diffusion operators arising in population biology** *Princeton Annals of Mathematical Studies*
Mazzeo, R., Epstein, C. L.
2013; 185
- **Initial data sets with ends of cylindrical type: II. The vector constraint equation** *ADVANCES IN THEORETICAL AND MATHEMATICAL PHYSICS*
Chrusciel, P. T., Mazzeo, R., Pocchiola, S.
2013; 17 (4): 829-865
- **Some global aspects of linear wave equations** *Clay Mathematical Proceedings*
Mazzeo, R., Baskin, D.
edited by Ellwood, D., Rodnianski, I., Staffilani, G., Wunsch, J.
2013
- **FRIEDLANDER'S EIGENVALUE INEQUALITIES AND THE DIRICHLET-TO-NEUMANN SEMIGROUP** *COMMUNICATIONS ON PURE AND APPLIED ANALYSIS*
Arendt, W., Mazzeo, R.
2012; 11 (6): 2201-2212
- **Analytic torsion on manifolds with edges** *ADVANCES IN MATHEMATICS*
Mazzeo, R., Vertman, B.
2012; 231 (2): 1000-1040
- **Singular Solutions of Fractional Order Conformal Laplacians** *JOURNAL OF GEOMETRIC ANALYSIS*
del Mar Gonzalez, M., Mazzeo, R., Sire, Y.
2012; 22 (3): 845-863
- **The Ricci continuity method for the complex Monge-Ampere equation, with applications to Kahler-Einstein edge metrics** *COMPTES RENDUS MATHEMATIQUE*
Mazzeo, R., Rubinstein, Y. A.
2012; 350 (13-14): 693-697

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- **THE SIGNATURE PACKAGE ON WITT SPACES** *ANNALES SCIENTIFIQUES DE L'ECOLE NORMALE SUPERIEURE*
Albin, P., Leichtnam, E., Mazzeo, R., Piazza, P.
2012; 45 (2): 241-310
 - **Resolvent of the Laplacian on geometrically finite hyperbolic manifolds** *INVENTIONES MATHEMATICAE*
Guillarmou, C., Mazzeo, R.
2012; 187 (1): 99-144
 - **Spectral analysis of the Laplacian on geometrically finite hyperbolic manifolds** *Inventiones Mathematicae*
Mazzeo, R., Guillarmou, C.
2012; 187 (1): 94 - 144
 - **The Ricci continuity method for the complex Monge-Ampère equation, with applications to Kähler-Einstein edge metrics** *Comptes Rendus Academie Sciences Paris, Series I*
Rubinstein, Y., Mazzeo, R.
2012; 350: 693–697
 - **Analysis of degenerate diffusion operators arising in population biology** *From Fourier Analysis and Number Theory to Radon Transforms and Geometry*
Mazzeo, R., Epstein, C. L., Taylor, B. A.
edited by Farkas, H. M., Gunning, R. C., Knopp, M. I.
Springer, New York. 2012: 203–216
 - **CMC hypersurfaces condensing to geodesic segments and rays in Riemannian manifolds** *ANNALI DELLA SCUOLA NORMALE SUPERIORE DI PISA-CLASSE DI SCIENZE*
Butscher, A., Mazzeo, R.
2012; 11 (3): 653-706
 - **INFINITESIMAL RIGIDITY OF CONE-MANIFOLDS AND THE STOKER PROBLEM FOR HYPERBOLIC AND EUCLIDEAN POLYHEDRA** *JOURNAL OF DIFFERENTIAL GEOMETRY*
Mazzeo, R., Montcouquiol, G.
2011; 87 (3): 525-576
 - **A nonlinear Poisson transform for Einstein metrics on product spaces** *JOURNAL OF THE EUROPEAN MATHEMATICAL SOCIETY*
Biquard, O., Mazzeo, R.
2011; 13 (5): 1423-1475
 - **Ricci flow on open surfaces** *Surveys in Geometric Analysis and Relativity*
Mazzeo, R., Isenberg, J., Sesum, N.
edited by Bray, H. L., Minicozzi, W. P.
Higher Education Press, Beijing. 2011: 259–280
 - **Constant curvature foliations in asymptotically hyperbolic spaces** *REVISTA MATEMATICA IBEROAMERICANA*
Mazzeo, R., Pacard, F.
2011; 27 (1): 303-333
 - **Renormalized Area and Properly Embedded Minimal Surfaces in Hyperbolic 3-Manifolds** *COMMUNICATIONS IN MATHEMATICAL PHYSICS*
Alexakis, S., Mazzeo, R.
2010; 297 (3): 621-651
 - **WRIGHT-FISHER DIFFUSION IN ONE DIMENSION** *SIAM JOURNAL ON MATHEMATICAL ANALYSIS*
Epstein, C. L., Mazzeo, R.
2010; 42 (2): 568-608
 - **Ricci flow on surfaces with cusps** *MATHEMATISCHE ANNALEN*
Ji, L., Mazzeo, R., Sesum, N.
2009; 345 (4): 819-834
 - **Symmetry for Solutions of Two-phase Semilinear Elliptic Equations on Hyperbolic Space** *INDIANA UNIVERSITY MATHEMATICS JOURNAL*
Birindelli, I., Mazzeo, R.
2009; 58 (5): 2347-2368
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- **Self-similar expanding solutions for the planar network flow** *Analytic aspects of problems in Riemannian geometry: Elliptic PDEs, solitons and computer imaging*
Mazzeo, R., Saez, M.
edited by Baird, P., Soufi, A. E., Fardoun, A., Regbaoui, R.
2009: 159–73
- **Constraining Surface Interpolations Using Elastic Plate Bending Solutions with Applications to Geologic Folding** *MATHEMATICAL GEOSCIENCES*
Kaven, J. O., Mazzeo, R., Pollard, D. D.
2009; 41 (1): 1-14
- **Using total-variation regularization for intensity modulated radiation therapy inverse planning with field-specific numbers of segments** *PHYSICS IN MEDICINE AND BIOLOGY*
Zhu, L., Lee, L., Ma, Y., Ye, Y., Mazzeo, R., Xing, L.
2008; 53 (23): 6653-6672
- **FLEXIBILITY OF SINGULAR EINSTEIN METRICS** *ASTERISQUE*
Mazzeo, R.
2008: 169-193
- **Using total-variation regularization for segment-based dose optimization with specific numbers of segments** *Physics in Medicine and Biology*
Mazzeo, R., Zhu, L., Lee, L., Ma, Y., Ye, Y., Xing, L.
2008; 53: 6653 - 6672
- **Fast aperture-based inverse treatment planning using mixed integer and quadratic optimization** *50th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology (ASTRO)*
Zhu, L., Ma, Y., Lee, L., Ye, Y., Mazzeo, R., Xing, L.
ELSEVIER SCIENCE INC.2008: S675–S675
- **Scattering theory on $SL(3)/SO(3)$: Connections with quantum 3-body scattering** *PROCEEDINGS OF THE LONDON MATHEMATICAL SOCIETY*
Mazzeo, R., Vasy, A.
2007; 94: 545-593
- **Review of Nonlinear elliptic equations in conformal geometry** *Bulletin of the American Mathematical Society*
Mazzeo, R.
2007; 44: 323 - 330
- **Maskit combinations of Poincare-Einstein metrics** *ADVANCES IN MATHEMATICS*
Mazzeo, R., Pacard, F.
2006; 204 (2): 379-412
- **Constant mean curvature hypersurfaces condensing on a submanifold** *GEOMETRIC AND FUNCTIONAL ANALYSIS*
Mahmoudi, F., Mazzeo, R., Pacard, F.
2006; 16 (4): 924-958
- **The index of Dirac operators on manifolds with fibered boundaries** *Joint Meeting of the Belgian (BMS), Dutch (KWG), Luxembourg (SML), and French (SMF) Mathematical Societies (BeNeLuxFra)*
Leichtnam, E., Mazzeo, R., Piazza, P.
BELGIAN MATHEMATICAL SOC TRIOMPHE.2006: 845–55
- **Constant mean curvature hypersurfaces condensing along a submanifold** *Geometric and Functional Analysis*
Mazzeo, R., Mahmoudi, F., Pacard, F.
2006; 16 (4): 924 - 958
- **Parabolic geometries as conformal infinities of Einstein metrics** *Archivum Mathematicum*
Mazzeo, R., Biquard, O.
2006; 42: 85 - 104
- **Resolution blowups, spectral convergence and quasi-asymptotically conical spaces** *Journées Equations aux Derivées Partielles*
Mazzeo, R.
2006; VIII: 16

- **Harmonic forms on manifolds with edges** *INTERNATIONAL MATHEMATICS RESEARCH NOTICES*
Hunsicker, E., Mazzeo, R.
2005; 3229-3272
- **Analytic continuation of the resolvent of the Laplacian on symmetric spaces of noncompact type** *JOURNAL OF FUNCTIONAL ANALYSIS*
Mazzeo, R., Vasy, A.
2005; 228 (2): 311-368
- **Foliations by constant mean curvature tubes** *COMMUNICATIONS IN ANALYSIS AND GEOMETRY*
Mazzeo, R., Pacard, F.
2005; 13 (4): 633-670
- **Conformal theory of Alexandrov embedded constant mean curvature surfaces in \mathbf{R}^3** *AMS/Clay Mathematics Proceedings*
Mazzeo, R., Pacard, F., Pollack, D.
edited by Hoffman, D.
2005
- **Analytic continuation of the resolvent of the Laplacian on $SL(3)/SO(3)$** *AMERICAN JOURNAL OF MATHEMATICS*
Mazzeo, R., Vasy, A.
2004; 126 (4): 821-844
- **Hodge cohomology of gravitational instantons** *DUKE MATHEMATICAL JOURNAL*
Hausel, T., Hunsicker, E., Mazzeo, R.
2004; 122 (3): 485-548
- **Pseudodifferential analysis for the resolvent on noncompact symmetric spaces** *Partial differential equations and inverse problems*
Mazzeo, R.
2004; 362: 289 - 301
- **Poincare-Einstein metrics and the Schouten tensor** *PACIFIC JOURNAL OF MATHEMATICS*
Mazzeo, R., Pacard, F.
2003; 212 (1): 169-185
- **On 'many-black-hole' vacuum spacetimes** *CLASSICAL AND QUANTUM GRAVITY*
Chrusciel, P. T., Mazzeo, R.
2003; 20 (4): 729-754
- **On the topology of vacuum spacetimes** *ANNALES HENRI POINCARÉ*
Isenberg, J., Mazzeo, R., Pollack, D.
2003; 4 (2): 369-383
- **Gluing and wormholes for the Einstein constraint equations** *COMMUNICATIONS IN MATHEMATICAL PHYSICS*
Isenberg, J., Mazzeo, R., Pollack, D.
2002; 231 (3): 529-568
- **Resolvents and Martin boundaries of product spaces** *GEOMETRIC AND FUNCTIONAL ANALYSIS*
Mazzeo, R., Vasy, A.
2002; 12 (5): 1018-1079
- **Bifurcating nodoids**
Mazzeo, R., Pacard, F.
2002: 169-86
- **Resolvents, Martin boundaries and Riemannian products** *Geometric and Functional Analysis*
Mazzeo, R., Vasy, A.
2002; 12: 1018 - 1079
- **Curvature and uniformization** *ISRAEL JOURNAL OF MATHEMATICS*
Mazzeo, R., Taylor, M.
2002; 130: 323-346

- **Singular Sturm-Liouville theory on manifolds** *JOURNAL OF DIFFERENTIAL EQUATIONS*
Mazzeo, R., McOwen, R.
2001; 176 (2): 387-444
- **Connected sums of constant mean curvature surfaces in Euclidean 3 space** *JOURNAL FUR DIE REINE UND ANGEWANDTE MATHEMATIK*
Mazzeo, R., Pacard, F., Pollack, D.
2001; 536: 115-165
- **Constant mean curvature surfaces with Delaunay ends** *COMMUNICATIONS IN ANALYSIS AND GEOMETRY*
Mazzeo, R., Pacard, F.
2001; 9 (1): 169-237
- **Spectral invariants** *The Emissary*
Mazzeo, R.
2001
- **Recent advances in the global theory of constant mean curvature surfaces** *Noncompact Problems at the Intersection of Geometry, Analysis, and Topology*
Mazzeo, R.
edited by Bahri, A., Klainerman, S., Vogelius, M.
American Mathematical Society.2001
- **Constant scalar curvature metrics with isolated singularities** *DUKE MATHEMATICAL JOURNAL*
Mazzeo, R., Pacard, F.
1999; 99 (3): 353-418
- **Refined asymptotics for constant scalar curvature metrics with isolated singularities** *INVENTIONES MATHEMATICAE*
Korevaar, N., Mazzeo, R., Pacard, F., Schoen, R.
1999; 135 (2): 233-272
- **Pseudodifferential operators on manifolds with fibred boundary** *Asian Journal of Mathematics*
Mazzeo, R., Melrose, R. B.
1999; 2 (4): 833 - 866
- **Kahler-Einstein metrics singular along a smooth divisor** *Journees Equations aux Derivees Partielles, Saint-Jean-de-Monts*
Mazzeo, R.
1999
- **Gluing and moduli for noncompact geometric problems**
Mazzeo, R., Pollack, D.
1998: 17-51
- **Dirac operators, heat kernels and microlocal analysis Part II: Analytic surgery** *Rendiconti di Matematica e delle sue applicazioni*
Mazzeo, R., Piazza, P.
1998; 18: 221 - 288
- **A signature formula for manifolds with corners of codimension two** *TOPOLOGY*
Hassell, A., Mazzeo, R., MELROSE, R. B.
1997; 36 (5): 1055-1075
- **A construction of singular solutions for a semilinear elliptic equation using asymptotic analysis** *JOURNAL OF DIFFERENTIAL GEOMETRY*
Mazzeo, R., Pacard, F.
1996; 44 (2): 331-370
- **Moduli spaces of singular Yamabe metrics** *JOURNAL OF THE AMERICAN MATHEMATICAL SOCIETY*
Mazzeo, R., Pollack, D., Uhlenbeck, K.
1996; 9 (2): 303-344
- **The moduli space of complete embedded constant mean curvature surfaces** *GEOMETRIC AND FUNCTIONAL ANALYSIS*
KUSNER, R., Mazzeo, R., Pollack, D.
1996; 6 (1): 120-137

- **On the geometry of cusps for SU (n, 1) Manifolds and Geometry**
Mazzeo, R., Burns, D.
Cambridge University Press.1996
- **Review of "Heat Kernels and Dirac Operators"** *Bulletin of the American Mathematical Society*
Mazzeo, R.
1996; 33: 125 - 129
- **ANALYTIC SURGERY AND THE ETA-INVARIANT** *GEOMETRIC AND FUNCTIONAL ANALYSIS*
MAZZEO, R. R., MELROSE, R. B.
1995; 5 (1): 14-75
- **Analytic surgery and the accumulation of eigenvalues** *Communications in Analysis and Geometry*
Hassel, A., Melrose, R. B., Mazzeo, R.
1995
- **Connected sum constructions for constant scalar curvature metrics** *Topological Methods in Nonlinear Analysis*
Mazzeo, R., Pollack, D., Uhlenbeck, K.
1995; 6 (2): 207 - 233
- **Perturbing away higher dimensional singularities from area minimizing hypersurfaces** *Communications in Analysis and Geometry*
Smale, N., Mazzeo, R.
1994; 2 (2): 313 - 336
- **CONFORMALLY FLAT METRICS OF CONSTANT POSITIVE SCALAR CURVATURE ON SUBDOMAINS OF THE SPHERE** *JOURNAL OF DIFFERENTIAL GEOMETRY*
Mazzeo, R., Smale, N.
1991; 34 (3): 581-621
- **REMARKS ON A PAPER OF FRIEDLANDER CONCERNING INEQUALITIES BETWEEN NEUMANN AND DIRICHLET EIGENVALUES** *DUKE MATHEMATICAL JOURNAL*
Mazzeo, R.
1991; 63 (3): 41-48
- **UNIQUE CONTINUATION AT INFINITY AND EMBEDDED EIGENVALUES FOR ASYMPTOTICALLY HYPERBOLIC MANIFOLDS** *AMERICAN JOURNAL OF MATHEMATICS*
Mazzeo, R.
1991; 113 (1): 25-45
- **ELLIPTIC THEORY OF DIFFERENTIAL EDGE OPERATORS .1.** *COMMUNICATIONS IN PARTIAL DIFFERENTIAL EQUATIONS*
Mazzeo, R.
1991; 16 (10): 1615-1664
- **REGULARITY FOR THE SINGULAR YAMABE PROBLEM** *INDIANA UNIVERSITY MATHEMATICS JOURNAL*
Mazzeo, R.
1991; 40 (4): 1277-1299
- **HODGE THEORY ON HYPERBOLIC MANIFOLDS** *DUKE MATHEMATICAL JOURNAL*
Mazzeo, R., Phillips, R. S.
1990; 60 (2): 509-559
- **THE ADIABATIC LIMIT, HODGE COHOMOLOGY AND LERAY SPECTRAL SEQUENCE FOR A FIBRATION** *JOURNAL OF DIFFERENTIAL GEOMETRY*
MAZZEO, R. R., MELROSE, R. B.
1990; 31 (1): 185-213
- **Edge operators in geometry**
Mazzeo, R.
1990

- **THE HODGE COHOMOLOGY OF A CONFORMALLY COMPACT METRIC** *JOURNAL OF DIFFERENTIAL GEOMETRY*
Mazzeo, R.
1988; 28 (2): 309-339
- **MEROMORPHIC EXTENSION OF THE RESOLVENT ON COMPLETE SPACES WITH ASYMPTOTICALLY CONSTANT NEGATIVE CURVATURE** *JOURNAL OF FUNCTIONAL ANALYSIS*
MAZZEO, R. R., MELROSE, R. B.
1987; 75 (2): 260-310
- **Meromorphic extension of the resolvent for spaces with asymptotically constant negative curvature** *Journal of Functional Analysis*
Melrose, R. B., Mazzeo, R.
1987; 75: 260 - 310