Stanford



Rafe Mazzeo

Cassius Lamb Kirk Professor of the Natural Sciences

Mathematics

Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Professor, Mathematics

ADMINISTRATIVE APPOINTMENTS

- Szegö 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

2026-27

- Advanced Complex Analysis: MATH 117 (Spr)
- Analytic Number Theory: MATH 155 (Win)
- Partial Differential Equations: MATH 256B (Spr)

2025-26

- Complex Analysis: MATH 116 (Aut)
- Real Analysis: MATH 205B (Win)
- Topics in Geometric Analysis: MATH 258 (Aut)

2024-25

- Advanced Complex Analysis: MATH 117 (Spr)
- Elementary Functional Analysis: MATH 175 (Spr)
- Real Analysis: MATH 205B (Win)

2023-24

- Differential Equations with Linear Algebra, Fourier Methods, and Modern Applications: MATH 53 (Win)
- Topics in Geometric Analysis: MATH 258 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Advisor (AC)

Romain Speciel, Andy Yin

Doctoral (Program)

Andrea Martelli

Publications

PUBLICATIONS

- **New examples of Z2-harmonic 1-forms and their deformations** *GEOMETRIAE DEDICATA*
  Haydys, A., Mazzeo, R., Takahashi, R.
  2025; 219 (2)
- **Well-posedness of nonlinear flows on manifolds of bounded geometry** *ANNALS OF GLOBAL ANALYSIS AND GEOMETRY*
  Bahuaud, E., Guenther, C., Isenberg, J., Mazzeo, R.
  2024; 65 (4)

- **DOUBLE B-FIBRATIONS AND DESINGULARIZATION OF THE X-RAY TRANSFORM ON MANIFOLDS WITH STRICTLY CONVEX BOUNDARY** *JOURNAL DE L ECOLE POLYTECHNIQUE-MATHEMATIQUES*
  Mazzeo, R., Monard, F.
  2024; 11
- **CONVERGENCE STABILITY FOR RICCI FLOW ON MANIFOLDS WITH BOUNDED GEOMETRY** *PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY*
  Bahuaud, E., Guenther, C., Isenberg, J., Mazzeo, R.
  2023
- **Short-time existence for the network flow** *COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS*
  Lira, J., Mazzeo, R., Pluda, A., Saez, M.
  2023
- **OPERS AND THE TWISTED BOGOMOLNY EQUATIONS** *ANNALES SCIENTIFIQUES DE L ECOLE NORMALE SUPERIEURE*
  He, S., Mazzeo, R.
  2022; 55 (5): 1329-1356
- **Asymptotic geometry of the moduli space of parabolic SL(2, C)-Higgs bundles** *JOURNAL OF THE LONDON MATHEMATICAL SOCIETY-SECOND SERIES*
  Fredrickson, L., Mazzeo, R., Swoboda, J., Weiss, H.
  2022
- **Conformal fields and the structure of the space of solutions of the Einstein constraint equations** *ADVANCES IN THEORETICAL AND MATHEMATICAL PHYSICS*
  Holst, M., Maxwell, D., Mazzeo, R.
  2022; 26 (5): 1157-1201
- **Manifolds with Many Rarita-Schwinger Fields** *COMMUNICATIONS IN MATHEMATICAL PHYSICS*
  Baer, C., Mazzeo, R.
  2021
- **Conical Metrics on Riemann Surfaces, II: Spherical Metrics** *INTERNATIONAL MATHEMATICS RESEARCH NOTICES*
  Mazzeo, R., Zhu, X.
  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)xR** *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 x 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 POINCARE*
  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 x 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

- **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
- **The Ricci continuity method for the complex Monge-Amp´ere 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.
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- **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.
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- **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

- **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** *Journees Equations aux Derivees Partielles*
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  2006; VIII: 16
- **Harmonic forms on manifolds with edges** *INTERNATIONAL MATHEMATICS RESEARCH NOTICES*
  Hunsicker, E., Mazzeo, R.
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- **Analytic continuation of the resolvent of the Laplacian on symmetric spaces of noncompact type** *JOURNAL OF FUNCTIONAL ANALYSIS*
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- **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 R3** *AMS/Clay Mathematics Proceedings*
  Mazzeo, R., Paccard, F., Pollack, D.
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  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 POINCARE*
  Isenberg, J., Mazzeo, R., Pollack, D.
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- **Gluing and wormholes for the Einstein constraint equations** *COMMUNICATIONS IN MATHEMATICAL PHYSICS*
  Isenberg, J., Mazzeo, R., Pollack, D.
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- **Resolvents and Martin boundaries of product spaces** *GEOMETRIC AND FUNCTIONAL ANALYSIS*
  Mazzeo, R., Vasy, A.
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- **Bifurcating nodoids**
  Mazzeo, R., Pacard, F.
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- **Resolvents, Martin boundaries and Riemannian products** *Geometric and Functional Analysis*
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- **Curvature and uniformization** *ISRAEL JOURNAL OF MATHEMATICS*
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- **Singular Sturm-Liouville theory on manifolds** *JOURNAL OF DIFFERENTIAL EQUATIONS*
  Mazzeo, R., McOwen, R.
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- **Connected sums of constant mean curvature surfaces in Euclidean 3 space** *JOURNAL FUR DIE REINE UND ANGEWANDTE MATHEMATIK*
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- **Constant mean curvature surfaces with Delaunay ends** *COMMUNICATIONS IN ANALYSIS AND GEOMETRY*
  Mazzeo, R., Pacard, F.
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- **Spectral invariants** *The Emissary*
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- **Recent advances in the global theory of constant mean curvature surfaces** *Noncompact Problems at the Intersection of Geometry, Analysis, and Topology*
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  Korevaar, N., Mazzeo, R., Pacard, F., Schoen, R.
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- **Pseudodifferential operators on manifolds with fibred boundary** *Asian Journal of Mathematics*
  Mazzeo, R., Melrose, R. B.
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- **Kahler-Einstein metrics singular along a smooth divisor** *Journees Equations aux Derivees Partielles, Saint-Jean-de-Monts*
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- **Gluing and moduli for noncompact geometric problems**
  Mazzeo, R., Pollack, D.
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- **Dirac operators, heat kernels and microlocal analysis Part II: Analytic surgery** *Rendicondi di Matematica e delle sue applicazioni*
  Mazzeo, R., Piazza, P.
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- **A signature formula for manifolds with corners of codimension two** *TOPOLOGY*
  Hassell, A., Mazzeo, R., MELROSE, R. B.
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- **A construction of singular solutions for a semilinear elliptic equation using asymptotic analysis** *JOURNAL OF DIFFERENTIAL GEOMETRY*
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- **The moduli space of complete embedded constant mean curvature surfaces** *GEOMETRIC AND FUNCTIONAL ANALYSIS*
  KUSNER, R., Mazzeo, R., Pollack, D.
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  Mazzeo, R.
  1996; 33: 125 - 129
- **ANALYTIC SURGERY AND THE ETA-INVARIANT** *GEOMETRIC AND FUNCTIONAL ANALYSIS*
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- **Connected sum constructions for constant scalar curvature metrics** *Topological Methods in Nonlinear Analysis*
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- **Perturbing away higher dimensional singularities from area minimizing hypersurfaces** *Communications in Analysis and Geometry*
  Smale, N., Mazzeo, R.
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- **REMARKS ON A PAPER OF FRIEDLANDER CONCERNING INEQUALITIES BETWEEN NEUMANN AND DIRICHLET EIGENVALUES** *DUKE MATHEMATICAL JOURNAL*
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- **UNIQUE CONTINUATION AT INFINITY AND EMBEDDED EIGENVALUES FOR ASYMPTOTICALLY HYPERBOLIC MANIFOLDS** *AMERICAN JOURNAL OF MATHEMATICS*
  Mazzeo, R.
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- **ELLIPTIC THEORY OF DIFFERENTIAL EDGE OPERATORS .1.** *COMMUNICATIONS IN PARTIAL DIFFERENTIAL EQUATIONS*
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- **REGULARITY FOR THE SINGULAR YAMABE PROBLEM** *INDIANA UNIVERSITY MATHEMATICS JOURNAL*
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