

## Leon Simon

Robert Grimmett Professor of Mathematics, Emeritus

### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Mathematics

### Publications

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#### PUBLICATIONS

- **Stable minimal hypersurfaces in  $\mathbb{R}^{n+1}$  with singular set an arbitrary closed  $Kc\{0\}xRI$**  *ANNALS OF MATHEMATICS*  
Simon, L.  
2023; 197 (3): 1205-1234
- **A Frequency Function and Singular Set Bounds for Branched Minimal Immersions** *COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS*  
Simon, L., Wickramasekera, N.  
2016; 69 (7): 1213-1258
- **Stable branched minimal immersions with prescribed boundary** *JOURNAL OF DIFFERENTIAL GEOMETRY*  
Simon, L., Wickramasekera, N.  
2007; 75 (1): 143-173
- **Schauder estimates by scaling** *CALCULUS OF VARIATIONS AND PARTIAL DIFFERENTIAL EQUATIONS*  
Simon, L.  
1997; 5 (5): 391-407
- **RECTIFIABILITY OF THE SINGULAR SET OF ENERGY MINIMIZING MAPS** *CALCULUS OF VARIATIONS AND PARTIAL DIFFERENTIAL EQUATIONS*  
Simon, L.  
1995; 3 (1): 1-65
- **CYLINDRICAL TANGENT-CONES AND THE SINGULAR SET OF MINIMAL SUBMANIFOLDS** *JOURNAL OF DIFFERENTIAL GEOMETRY*  
Simon, L.  
1993; 38 (3): 585-652
- **PERTURBING AWAY SINGULARITIES OF HARMONIC MAPS** *MANUSCRIPTA MATHEMATICA*  
McIntosh, R., Simon, L.  
1990; 67 (2): 113-124
- **ENTIRE SOLUTIONS OF THE MINIMAL SURFACE EQUATION** *JOURNAL OF DIFFERENTIAL GEOMETRY*  
Simon, L.  
1989; 30 (3): 643-688
- **NODAL SETS FOR SOLUTIONS OF ELLIPTIC-EQUATIONS** *JOURNAL OF DIFFERENTIAL GEOMETRY*  
Hardt, R., Simon, L.  
1989; 30 (2): 505-522
- **CONTINUITY ESTIMATES FOR SOLUTIONS TO THE PRESCRIBED-CURVATURE DIRICHLET PROBLEM** *MATHEMATISCHE ZEITSCHRIFT*  
KOREVAAR, N. J., Simon, L.

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1988; 197 (4): 457-464

- **SOME EXTENSIONS OF BERNSTEINS THEOREM** *MATHEMATISCHE ZEITSCHRIFT*  
Simon, L.  
1977; 154 (3): 265-273
- **HOLDER ESTIMATE FOR QUASICONFORMAL MAPS BETWEEN SURFACES IN EUCLIDEAN SPACE** *ACTA MATHEMATICA*  
Simon, L.  
1977; 139 (1-2): 19-51
- **EQUATIONS OF MEAN CURVATURE TYPE IN 2 INDEPENDENT VARIABLES** *PACIFIC JOURNAL OF MATHEMATICS*  
Simon, L.  
1977; 69 (1): 245-268
- **REGULARITY AND SINGULARITY ESTIMATES ON HYPERSURFACES MINIMIZING PARAMETRIC ELLIPTIC VARIATIONAL INTEGRALS** *ACTA MATHEMATICA*  
Schoen, R., Simon, L., ALMGREN, F. J.  
1977; 139 (3-4): 217-265
- **THEOREM OF DEGIORGI AND STAMPACCHIA** *MATHEMATISCHE ZEITSCHRIFT*  
Simon, L.  
1977; 155 (2): 199-204
- **REMARKS ON CURVATURE ESTIMATES FOR MINIMAL HYPERSURFACES** *DUKE MATHEMATICAL JOURNAL*  
Simon, L.  
1976; 43 (3): 545-553
- **INTERIOR GRADIENT BOUNDS FOR NONUNIFORMLY ELLIPTIC EQUATIONS** *INDIANA UNIVERSITY MATHEMATICS JOURNAL*  
Simon, L.  
1976; 25 (9): 821-855
- **BOUNDARY REGULARITY FOR SOLUTIONS OF NONPARAMETRIC LEAST AREA PROBLEM** *ANNALS OF MATHEMATICS*  
Simon, L.  
1976; 103 (3): 429-455
- **CURVATURE ESTIMATES FOR MINIMAL HYPERSURFACES** *ACTA MATHEMATICA*  
Schoen, R., Simon, L., Yau, S. T.  
1975; 134 (3-4): 275-288
- **GLOBAL ESTIMATES OF HOLDER CONTINUITY FOR A CLASS OF DIVERGENCE-FORM ELLIPTIC EQUATIONS** *ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS*  
Simon, L.  
1974; 56 (3): 253-272