During this period of research a substantial research program continued in statistical inference, one that has seen the publication of nearly 100 papers and a book since the initiation of support. The papers written or revised in 1991-1992 are: (1) "An Asympototic Theory for Sliced Inverse Regression", T. Hsing & R.J. Carroll (2) "Measurement Error Regression with Unknown Link: Dimension Reduction & Data Visualization", Raymond Carroll & Ker-Chau Li (3) "Further Remarks on Robustness in the Logistic Regression Model", R.J. Carroll & Shane Pederson (4) "Semiparametric Comparison of Regression Curves Via Normal Likelihoods", R.J. Carroll & Peter Hall (5) "Theoreticas Aspects of Ill-Posed Problems in Statistics", A.C.M. Van Rooij, F.H. Ruymgaart & R.J. Carroll.
FINAL REPORT: GRANT AFOSR–89–0240

Raymond J. Carroll, P. I.

OVERVIEW
I was funded by AFOSR from 1975–88 while I was at the University of North Carolina, and from 1988–91 on the current grant. During the 1991–92 fiscal year, I have been on a no cost extension to the current grant, which has not been renewed. I list below the activities which were supported by the current grant.

PUBLICATIONS

Invited Talks

<table>
<thead>
<tr>
<th>University</th>
<th>Year</th>
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<tbody>
<tr>
<td>North Carolina State University</td>
<td>1988</td>
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<tr>
<td>University of Iowa</td>
<td>1988</td>
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<tr>
<td>University of Maryland</td>
<td>1988</td>
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<tr>
<td>Conference on Applied Statistics, Atlantic City</td>
<td>1988</td>
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<tr>
<td>UCLA</td>
<td>1989</td>
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<tr>
<td>Rand Corporation</td>
<td>1989</td>
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<td>University of Minnesota</td>
<td>1989</td>
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<tr>
<td>CBMS Errors in Variables Conference</td>
<td>1989</td>
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<tr>
<td>IMA Robustness Conference, Minnesota</td>
<td>1989</td>
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<tr>
<td>Johns Hopkins University</td>
<td>1989</td>
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<td>University of New Mexico</td>
<td>1990</td>
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<td>Los Alamos National Laboratory</td>
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<td>University of Waterloo</td>
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<td>Yale University</td>
<td>1990</td>
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<td>University of Wisconsin</td>
<td>1990</td>
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<td>Cornell Workshop on Function Estimation</td>
<td>1990</td>
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<tr>
<td>Purdue University</td>
<td>1990</td>
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<tr>
<td>Montana State University</td>
<td>1990</td>
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</tbody>
</table>
Penn State University
Alaska ASA Chapter
Conference on Discrete Choice Models, Louvaine le Neuve
Australian National University
LaTrobe University
University of Tasmania
Regression Conference, Australian Statistical Association
Australian Graduate School of Management (Inaugural Statistics Lectures)
Statistics Week, University of Miami (Ohio)
University of Alaska, Fairbanks
Penn State University
ENAR National Meeting, Atlanta
North Carolina Chapter, American Statistical Association
Bureau of Labor Statistics
University of Texas at Austin
National Institute of Occupational Safety and Health
ENAR Spring Meeting, Cincinnati
Swiss Statistics Society Spring Meeting
Eli Lilly Conference on Population Pharmacokinetics
Purdue Decision Theory Conference
GLIM 92, München, Germany

HONORS RECEIVED
COPSS President's Award (IMS, ASA, ENAR, WNAR, CSS), 1988.
Ordinary Member, International Statistical Institute, elected 1991.

EDITORIAL RESPONSIBILITIES

APPOINTMENTS
Institute of Mathematical Statistics, Elected Council Member, 1991-94.
National Institutes of Health, Division of Computer Resources and Technology. Chair of site visit committee for Laboratory for Statistical Methodology, 1991.
Program Chair, 1991 Annual Meeting of the Institute of Mathematical Statistics, Atlanta, Georgia.