

**Box List:** Zhong-Jin Ruan Papers, 1979–2020  
Liberal Arts and Sciences, Mathematics Department, UIUC  
**ID:** 15/14/44

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**Arrangement:**

- Series 1: Personal Files and Publications, 1990–ca. 2010
- Series 2: Subject Files, 1979–2020
- Series 3: Grant Applications and Research Proposals, 1988–2020

**Complete Finding Aid (Created April 2021):**

<https://archon.library.illinois.edu/index.php?p=collections/controlcard&id=11864&q=ruan>

**Repository:**

University Archives  
University of Illinois at Urbana-Champaign  
<http://archives.library.illinois.edu/>

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**Series 1: Personal Files and Publications, 1990-ca. 2010**

Series 1 includes Professor Ruan's CV, followed by journal publications, arranged chronologically.

**Box 1**

1. Curriculum Vitae, ca. 2010
2. "The Structure of Pure Completely Bounded and Completely Positive Multilinear Operators," *Pacific Journal of Mathematics* 143, no. 1, 1990
3. "Complexifications of Real Operator Spaces," *Illinois Journal of Mathematics* 47, no. 4, 2003
4. "A Representation Theorem for Locally Compact Quantum Groups," *International Journal of Mathematics* 20, no. 3, 2009

**Series 2: Subject Files. 1979-2020**

Series 2 contains Professor Ruan's Academic Annual Reports & Sabbatical Applications; Conferences, Talks, and Research Notes; Teaching Materials; and Committee Work. All are arranged chronologically within these categories. In Conferences, Talks, and Research Notes, undated files are placed at the end and arranged alphabetically.

**Box 1**

**Academic Annual Reports & Sabbatical Applications**

5. Academic Activity File, 1 of 3, 1988-2009
6. Academic Activity File, 2 of 3, 1988-2009
7. Academic Activity File, 3 of 3, 1988-2009
8. Tenure Review Correspondence, 1991
9. Sabbatical Application, 1993
10. Sabbatical for Fall 2001 and 2008/2015, 2000-15
11. Academic Activity Reports and Summaries, 2009-18

**Conferences, Talks, and Research Notes**

12. Notes on Geometry, 1 of 2, 1979 -89
13. Notes on Geometry, 2 of 2, 1979 -89
14. Topics in Measure Theory, 1 of 4, 1985 -88
15. Topics in Measure Theory, 2 of 4, 1985 -88
16. Topics in Measure Theory, 3 of 4, 1985 -88
17. Topics in Measure Theory, 4 of 4, 1985 -88

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**Series 2: Subject Files, 1979 – 2020**

**Box 1**

18.  $e^*$  - algebra - UCSB Conference, 1986
19. Santa Barbara Conference on Operator Algebras, 1986
20. “On the Matricial Norm Structure of Operator Spaces” – University of California, Berkeley, Talk – Functional Analysis, 1987
21. “On the Matricial Norm Structure of Operator Spaces” – UIUC Talk, 1987
22. Mathematical Notes Relating to Categories, Vectorial spaces, and Banach Algebras, 1987 -88
23. Ruan. Penn. Notes, 1987 -90
24. Invitation to speak at INCREST -Bucharest, Romania, 1988
25. Seminar Talk -Representation of Operator Bimodules -UIUC, 1988
26. UIUC Functional Analysis Seminar Talk –“Injectivity of Operator Spaces and Its Applications”, 1988
27. Wabash Seminars and Miniconferences, 1988 -98
28. American Mathematical Society Meeting -Muncie, Indiana, 1989
29. Mathematical Notes Relating to Operator Spaces, 1989
30. Penn State - Operator Algebras Talk, 1989
31. Talk at GPOTS Houston – Grothendieck Approximation Properties for Operator Spaces, 1989
32. Talk at SEAM V – University of Georgia, 1989
33. American Mathematical Society Meeting – University of California, Irvine, 1990
34. Current Topics in Operator Algebras – Mathematical Society of Japan and Nara-ken, 1990
35. Talk on Abstract Operator Spaces and Banach Theory – University of California – Irvine, 1990
36. Talk at TCU – Fort Worth, TX, 1990
37. American Mathematical Society Meeting, 1991
38. GPOTS – Mapping Spaces for Operator Spaces – Texas A&M, 1991
39. Quantum Group Talks, 1991 -92
40. Operator Convolution Algebras Talk – Springfield, MO, 1991 -92
41. Abstracts Characterization of Operator Spaces – St. Andrew’s Talk – July 1992, 1992
42. Algebres d’Operateurs – Université d’Orléans, 1992
43. EMS – St. Andrew’s Colloquium, 1992
44. GPOTS Talk, Iowa City, 1992
45. International Conference in Modern Analysis – Delhi, India, 1992
46. London Mathematical Society – Durham Symposium, 1992
47. Seminar Talk and Research, 1992
48. Talks in New Delhi, India – December 1992, 1992
49. International Conference in Abstract Analysis, 1992 -96
50. Amenable Discrete Quantum Groups and ACG Talk – Texas, 1993
51. Talk in South Africa – Kruger National Park – April 13 – 23, 1993

**Box 2**

1. September 1994 – West Coast Operator Algebra Seminar and March 13, 1995 – University of Toronto, 1994 -95
2. GPOTS – Cincinnati – May 1995, 1995

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**Series 2: Subject Files, 1979 – 2020**

**Box 2**

3. “Operator Spaces Associated with Quantum Groups” – Fields Institute, 1995
4. 24<sup>th</sup> Canadian Operator Symposium – Saskatoon, Canada – “Operator Spaces and Their Applications to Harmonic Analysis” Talk, 1996
5. 16<sup>th</sup> Conference on Operator Theory – July 2<sup>nd</sup> – July 8<sup>th</sup>, 1996 – Timisoara, Romania – Operator Spaces and Their Application to KAC Algebras, 1996
6. Conference on Operator Theory – Timisoara, 1 of 2, 1996 -98
7. Conference on Operator Theory – Timisoara, 2 of 2, 1996 -98
8. International Conference on Operator Algebra and Operator Theory – Shanghai, China, 1997
9. 2<sup>nd</sup> Math Workshop by Chinese Scholars at Rutgers University, 1997
10. AMS 1998 Jan – Baltimore Talk, 1997-98
11. Local Theory of Operator Spaces Including Wabash, Texas A&M, Fields Institute, 1997 -98
12. 26<sup>th</sup> Canadian Operator Theory and Operator Algebras Symposium – Edmonton, Alberta, 1998
13. AMS Meeting – Austin, Texas, “On Injectivity and Nuclearity for Operator Spaces – Joint Work with E. Effros and N. Ozawa, 1998
14. Effros – Ruan Talk OLp Spaces, 1998
15. Marseille – Operator Space Conference – June 1-5, 1998
16. Operator Space Workshop and AMS Session March 17<sup>th</sup> – 18<sup>th</sup>, March 19<sup>th</sup> – 20<sup>th</sup>, 1998 -99
17. Sun Institute Midwest Workshop, 1999
18. Urbana Operator Space Workshop, 1999
19. Waterloo Talk, Waterloo, Ontario, Canada – Operator Spaces, a Natural Quantization of Branch Spaces”, 1999
20. Talks on Functional Analysis – MATH 400 – Including Lecture Notes and Student Feedback, 1999 – 2002
21. Conference on Operator Spaces – Centre Emile Borel – IHP, Paris, 2000
22. Talk/Notes on Non-commutative Lp Spaces, ca. 2001
23. Wabash Talk – “A Characterization of Unital Operator Algebra” – October 15, ca. 2001
24. China 2002, Including Conferences in Vancouver, Canada; Nankai China; and Chengde, China, 2001 – 2002
25. 10 Lectures on Operator Spaces – Beijing, 2002
26. National Center for Theoretical Sciences Mathematics Division – National Tsing Hua University, Taiwan – Visiting Professorship, 2002
27. Banach Algebras and Their Applications – Edmonton, Alberta, Canada, 2003
28. Talk at Marseille, France – Espaces d’Opérateurs et Applications, 2003
29. March 12 – UCLA Colloquium and March 18 – Seminar “Operator Spaces and Their Applications to Non-commutative Harmonic Analysis, 2004
30. “From Matrices to Operator Theory” – MATH 499 Talk , Notes, and Student Reviews, 2005
31. BIRS Workshop on Operator Spaces and Group Algebras at Banf International Research Station, 2007
32. 08 – 09 AMS Special Math Dept., 2008 – 2009
33. Analysis Seminar, Part 1 – Recent Developments in the Theory of Operator Spaces, n.d.

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## Series 2: Subject Files, 1979 – 2020

### Box 2

34. “Arveson – Wittstock Hahn – Banach Theorem”, n.d.
35. Banach Space, Grothendieck Space, and Operator Spaces, n.d.
36. “A characterization of Operator Algebras”, n.d.
37. “Completely Bounded Multivariable Multipliers of Fourier Algebras”, n.d.
38. “Completely Bounded Multivariable Multipliers of Fourier Algebras” – Talk at University of Georgia, n.d.
39. Completely Isometric Representations, n.d.
40. “Local Theory of Operator Spaces” – Talk, n.d.
41. Local Theory Talk, n.d.
42. Non-commutative  $L_p$  Spaces and Their Connections with Operator Algebras – UNC Talk, n.d.
43. “Operator Spaces – Non-commutative Analysis”, n.d.
44. “Operator Spaces as Quantized Banach Spaces” – UNC Talk, n.d.
45. “Operator Spaces and Their Applications to Non-commutative Harmonic Analysis” – Talk, n.d.
46. “Quantized Functional Analysis”, n.d.
47. Seminar Talk at Copenhagen – Banach space, Grothendieck space, and Operator spaces, n.d.
48. Talk at Upsala, Sweden – Banach Algebra and Operator Algebra, n.d.

### Teaching Materials

49. MATH 347 Fundamental Mathematics – Syllabus, 2018
50. MATH 415 – Worksheet, 2020

### Committee Work

51. Berndt, Bruce, Correspondence, 1992
52. Illinois Journal of Mathematics, 2002
53. GPOTS Steering Committee, 2003
54. Promotion and Tenure Committee, 2006 – 2007
55. Promotion and Tenure Committee – Correspondence and Minutes (1 of 2), 2008
56. Promotion and Tenure Committee – Correspondence and Minutes (2 of 2), 2008
57. Wabash Seminar and Miniconference – Federal Grant Funding Report, 2015 – 2020

### Box 3

## Series 3: Grant Applications and Research Proposals

Series 3 contains Professor Ruan’s grant applications and research proposals from 1988 - . The series is arranged chronologically.

1. NSF 1988 Berkeley – NSF 1989 – 1991 Illinois, 1988 – 1991
2. International Travel Grant Application – AMS/ICM 90 Travel Program, 1989

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**Series 3: Grant Applications and Research Proposals**

**Box 3**

3. NSF 1989 ~ 1991 At University of Illinois, 1989 – 1991
4. UIUC Centre for Advanced Study Research Proposal and Correspondence, 1989 – 1991
5. NSF Application and Correspondence, 1991 – 1993
6. NSF Application, Correspondence, and Reports, 1993 – 1996
7. NSF Proposal, Award, and Final Report, 1995
8. NSF Proposal and Reports, 1996 – 1999
9. NSF Proposal – International Conference on Operator Algebras and Operator Theory in Shanghai, China, 1997
10. NSF Proposal, Correspondence, and Final Report, 1997 – 2003
11. Apply Center for Advanced Study, October 8, 1998
12. Application to the National Natural Science Foundation of China, 1999
13. Belgium Grant, 2000

**Box 4**

1. NSF Application and Reports, 2002 – 2005
2. Possible Focused Research Group – Notes for 5 – Year Proposal, ca. 2004
3. NSF Application and Reports, 2005 – 2009
4. NSF Proposal and Award, 2008 – 2009
5. NSF Proposal, 2011 – 2012
6. NSF Application, 2012
7. UIUC Proposal for Grant Funding – “ Capacities in Quantum Information Theory”, 2012

**Processing Note:** Duplicates, student exams, secondary materials, and blank manila envelopes were weeded from the collection. Folders titled by the archivist are indicated in brackets ([ ]). Processed by Elizabeth Nosari (April 2021) under the supervision of Susanne Belovari.