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Education:

B.A. in Mathematics from Cambridge Univ., Cambridge, England (1961-1964)

Ph.D. in Theoretical Physics from Cambridge University (1964-1967)

M.A. from Cambridge University (1968)

Professional Experience:

2004- Visiting Professor of Computer Science at Southampton University UK
2001- Professor of Computer Science, Informatics, Physics. Indiana University
2001- Director of Community Grid Laboratory; Pervasive Technology Laboratories at Indiana University
2000-2001 Professor of Computer Science, Florida State University
2000-2001 Associate Director of School of Computational Science and Information Technology FSU
2000-2001 Director of the Computational and Information Science Laboratory FSU
2000-2001 Chief Technologist of Office of Distributed and Distance Learning, FSU
1999- Distinguished Visiting Scientist, JPL Pasadena CA
1990-2002 Professor of Computer Science, Syracuse University
1990-2002 Professor of Physics, Syracuse University
1990-2004 Adjunct Professor, Computer Science, Rice University
1990-2000 Director of Northeast Parallel Architectures Center, Syracuse University
1979-1990 Professor of Physics, California Inst. of Tech.
1986-1988 Associate Provost for Computing, California Inst. of Tech.
1983-1985 Dean for Educational Computing, California Inst. of Tech.
1981-1983 Executive Officer of Physics, California Inst. of Tech.
1974-1979 Associate Professor of Physics, California Inst. of Tech.
1971-1974 Assistant Professor of Physics, California Inst. of Tech.
1970-1971 Millikan Research Fellow in Theoretical Physics, Caltech
1970 Visiting Scientist, Brookhaven National Laboratory, Long Island
1969-1970 Research Fellow at Peterhouse College, Cavendish Lab., Cambridge
1968-1969 Research Scientist, Lawrence Berkeley Lab., Berkeley, Calif.
1967-1968 Member of School of Natural Science, Inst. for Advanced Study, Princeton, New Jersey

Awards and Honors

Senior Wrangler, Part III Mathematics, Cambridge (1964)

Alfred P. Sloan Foundation Fellowship (1973-75)

Fellow of the American Physical Society (1990)

Board Membership

Anabas Corporation 2001-
Undergroundfilm.org 2003-

Current Journal Editor: *Concurrency: Practice and Experience*, John Wiley, Inc. (1989-present)

<http://www3.interscience.wiley.com/cgi-bin/jtoc?ID=5361>

Member of Editorial board: *The Journal of Supercomputing* (1987-)

Member of Editorial board: *Future Generation Computer Systems* (2003-)

Contributing Editor, *Grid Today* (2002-)

Previous Journal Responsibility

Supervisory Editor: *Nuclear Physics B* (1975-1986).

Member of the Editorial Board: *Computer Physics Communications* (1987-1994)

Member of the Editorial Board: *International C3IS Journal: Command, Control, Communications and Information Systems* (1987-1990)

Principal Editor: *Physics and Computers: International Journal of Modern Physics C* (1990-1998)

Member of Editorial board: *Theoretical and Computational Fluid Dynamics* (2002-2004)

Industry Experience

Co-founder of WebWisdom.com and Anabas corporations.

Patents TangoInteractive Collaboration System, March 2000 with several members of WebWisdom.com

Books Edited

Phenomenology in Particle Physics, 1971, (with C. B. Chiu and A. J. G. Hey), Proceedings of a conference at Caltech (organized by C. B. Chiu and G. C. Fox) in 1971.

Hypercube Concurrent Computers and Applications, Proceedings of the Third Conference on Hypercube Concurrent Computers and Applications, published by ACM, 1988.

Grid Computing: Making the Global Infrastructure a Reality edited by Fran Berman, Geoffrey Fox and Tony Hey, Wiley 2003

The Sourcebook of Parallel Computing edited by Jack Dongarra, Ian Foster, Geoffrey Fox, William Gropp, Ken Kennedy, Linda Torczon, and Andy White, Morgan Kaufmann, November 2002

Books Authored

- 1) *Solving Problems in Concurrent Processors-Volume 1*, with M. Johnson, G. Lyzenga, S. Otto, J. Salmon, D. Walker, Prentice Hall, March 1988.
- 2) *Solving Problems in Concurrent Processors-Volume 2*, with I. Angus, J. Kim, D. Walker, Prentice Hall, 1990.

- 3) *Supercomputer Applications of the Hypercube*, published in *Supercomputing Systems*, Chapter 11, pp. 480-577 by Van Nostrand Reinhold Publishing House, New York, N.Y. editors Steve and Lana Kartashev (1989).
- 4) *Parallel Computing Works!*, with P. Messina, R. Williams, Morgan Kaufman (1994).
- 5) *The Sourcebook of Parallel Computing* book edited by Jack Dongarra, Ian Foster, Geoffrey Fox, William Gropp, Ken Kennedy, Linda Torczon, and Andy White, Morgan Kaufmann, November 2002 (3 chapters co-authored by Fox)
- 6) *Grid Computing: Making the Global Infrastructure a Reality* edited by Fran Berman, Geoffrey Fox and Tony Hey, John Wiley & Sons, Chichester, England, ISBN 0-470-85319-0, March 2003

Publications

1. Fox, G. C. and Holmes, K. C. "An Alternative Method of Solving the Layer Scaling Equations of Hamilton, Rollett, and Sparks," *Acta Cryst.* **20**, 886 (1966).
2. Fox, G. C. and Leader, E. "Factorization of Helicity Amplitudes at High Energies," *Phys. Rev. Lett.*, **18**, 628 (1967).
3. Fox, G. C. "Methods for Constructing Invariant Amplitudes Free from Kinematic Singularities and Zeros," *Phys. Rev.*, **157**, 1493 (1967).
4. Fox, G. C. "Characteristic Features of the Scattering of Elementary Particles Arising from Their Spin and Electromagnetic Interaction," (unpublished), Ph.D. Dissertation, Cambridge, England (1967).
5. Fox, G. C. and Sertorio, L. "Regge Secondary Trajectories," *Phys. Rev.*, **176**, 1739 (1968).
6. Fox, G. C. and Freedman, D. Z. "Compton Scattering Sum Rules and Their Saturation," *Phys. Rev.*, **182**, 1628 (1969).
7. Fox, G. C., Goldhaber, A. S. and Quigg, C. "Theory of ρ - ω Interference in $\pi^+ \pi^-$ Production," *Phys. Lett.*, **30B**, 249 (1969).
8. Fox, G. C. and Berger, E. L., "Pion-Nucleon and Kaon-Nucleon Scattering in the Veneziano Model," *Phys. Rev.*, **188**, 2120 (1969).
9. Fox, G. C. "Skeletons in the Regge Cupboard," *Proceedings of the Stony Brook Conference on High Energy Physics*, 1969 (Gordon & Breach, Science Publishers, Inc., New York, New York (1970).
10. Fox, G. C. and Quigg, C., "Compilation of Elastic Scattering Data," UCRL-20001, January 1970. Interim report from the Particle Data Group, Lawrence Radiation Laboratory, Berkeley, California.
11. Fox, G. C., "A Veneziano Model without Parity Doubling for Production Processes," preprint, Cavendish Laboratory, Cambridge, England, February, 1970.
12. Fox, G. C. and Berger, E. L., "Decisive Tests of High Energy Models," *Phys. Rev. Lett.*, **25**, 1783 (1970).
13. Fox, G. C. and Berger, E. L., "Comparative Evaluation of Theories of πN Backward Scattering," *Nuclear Physics*, **B26**, 1 (1971).
14. Fox, G. C. and Berger, E. L., "Phenomenology of Backward Photoproduction," *Nuclear Physics*, **B30**, 1 (1971).

15. Fox, G. C., Engelmann, R., Musgrave, B., Schweingruber, F., Yuta, H., Forman, B., Gelfand, N. and Schultz, H., "The Charge Exchange Production Mechanism for $K^*(890)$," *Phys. Rev.*, **D4**, 2647 (1971).
16. Fox, G. C., "The Importance of Being an Amplitude," in *Phenomenology in Particle Physics 1971*, edited by C. B. Chiu, G. C. Fox and A. J. G. Hey (Caltech, 1971).
17. Fox, G. C., " π -exchange," in *Planning for the Future*, ANL/HEP-7208, p. 545, Proceedings of Summer Workshop (1971).
18. Fox, G. C., "Experiments with Polarized Targets," in *Planning for the Future*, ANL-HEP-7208, p. 1072, Proceedings of Summer Workshop (1971).
19. Fox, G. C. and Berger, E. L., "High Energy Physics with Polarized Proton Beams," in *2nd International Conference on Polarized Targets*, proceedings edited by G. Shapiro (Berkeley 1971).
20. Fox, G. C., "Past Lessons and Future Dreams from Polarization Data in High Energy Physics," *2nd International Conference on Polarized Targets*, proceedings edited by G. Shapiro (Berkeley 1971).
21. Fox, G. C. and Berger, E. L., "Line-Reversal-Symmetry Breaking and Interference Effects Between Resonances on a Dalitz Plot," *Physics Letters*, **36B**, 389 (1971).
22. Fox, G. C., "Peripheral Production of Resonances," in *3rd International Conference on Experimental Meson Spectroscopy*, edited by K. W. Lai and A. H. Rosenfeld (AIP 1972).
23. Fox, G. C. and Pilcher, J. E., "High Energy Collisions I and II: Summary of Parallel Sessions," in *Proceedings of the XVI International Conference on High Energy Physics*, edited by J. D. Jackson and A. Roberts (NAL 1972).
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26. Fox, G. C., Berger, E. L. and Kryzwicki, A., "Quantitative Measure of Cluster Formation in Multiparticle Production," *Physics Letters*, **43B**, 132 (1973).
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28. Fox, G. C. and Berger, E. L., "Multiplicity Distributions and Inclusive Spectra in a Multiperipheral Cluster Emission Model," *Physics Letters*, **47B**, 162 (1973).
29. Fox, G. C. and Quigg, C., "Production Mechanisms of Two-to-Two Scattering Processes at Intermediate Energies," *Annual Review of Nuclear Science*, Vol. 23 (1973).
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32. Fox, G. C. and Griss, M. L., "Study of the $I = 1/2$ $K\pi$ Scattering Amplitude I: Threshold to 1 GeV Region," *Nuclear Physics*, **B80**, 403 (1974).
33. Fox, G. C. and Field, R. D., "Triple Regge and Finite Mass Sum Rule Analysis of Inclusive Proton Production in pp Scattering from 10 GeV to ISR Energies," *Nuclear Physics*, **B80**, 367 (1974).
34. Fox, G. C., "A Spin for Everybody," Caltech preprint CALT-68-461, invited talk for the Workshop on Polarization, Brookhaven National Laboratory (1974)-published in BNL

20415 (Proceedings of Workshop).

35. Fox, G. C., Field, R. D., and Tollestrup, A. V., "Estimates of the Peripheral Production of the Charmed Eta," preprint CALT-68-491 unpublished (1975).
36. Fox, G. C. and Stevens, P. R., (Particle Data Group and High Energy Physics Laboratory representatives), "Compilation of Current High Energy Physics Experiments," LBL-91 (1976).
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38. Fox, G. C., (with experimental groups at Caltech, UCLA, Chicago Circle, Fermilab and Indiana University), "Observation of the Production of Jets of Particles at High Transverse Momentum and Comparison with Single Particle Reactions," *Phys. Rev. Letters*, **38**, 1447 (1977).
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42. Fox, G. C., (with experimental groups at Caltech, UCLA, Chicago Circle, Fermilab and Indiana University), "Production of Jets and Single Particles at High p_T in 200 GeV Hadron Beryllium Collisions," *Nuclear Physics*, **B134**, 189 (1978).
43. Fox, G. C., (with experimental groups at Caltech, UCLA, Chicago Circle, Fermilab and Indiana University), "Comparison of Hadron Jets Produced in π^- and p Beams on Hydrogen and Aluminum Targets," Fermilab-Conf-77/62-EXP preprint (unpublished).
44. Fox, G. C., "Recent Experimental Results on High Transverse Momentum Scattering from Fermilab," invited talk at APS meeting at Argonne, October, 1977. Published in "Particles and Fields-1977," edited by P. A. Schreiner, G. H. Thomas and A. B. Wicklund (APS, 1978).
45. Fox, G. C., "Applications of Quantum Chromodynamics to High Transverse Momentum Hadron Production," invited talk at Orbis Scientiae 1978 (Coral Gables). Published in *New Frontiers in High-Energy Physics*, edited by A. Perlmutter and L. Scott (Plenum, 1978).
46. Fox, G. C., "The Physics of Inclusive Charged Neutrino Reactions," invited talk at 1978 Neutrino Conference; published in *Neutrinos '78*, edited by E. C. Fowler (Purdue, 1978).
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 57. Fox, G. C. with experimental groups at Caltech, UCLA, Chicago Circle, Fermilab and Indiana), "Production and Correlations of Charged Particles with High p_{\perp} in 200 GeV π^+p , K^+p and pp Collisions," *Phys. Rev. Letters*, **43**, 561 (1979).
 58. Fox, G. C. with experimental groups at Caltech, UCLA, Chicago Circle, Fermilab and Indiana), "Experimental Tests of Quantum Chromodynamics in High p_{\perp} Jet Production in 200 GeV/c Hadron-Proton Collisions," *Phys. Rev. Letters*, **43**, 565 (1979) and erratum *ibid.* **43**, 1058 (1979).
 59. Fox, G. C. with experimental groups at Caltech, UCLA, Chicago Circle, Fermilab and Indiana), "Measurement of Forward Jets Produced in High Transverse Momentum Hadron-Proton Collisions," *Phys. Rev. Letters*, **45**, 769 (1980).
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 64. Fox, G. C., Kennett R. G., Stone A. E. A., Barnes A. V., Walker, R. L., Dahl, O. I., Kenney, R. W., Ogawa, A., Pripstein, M., "Inclusive π^0 and η Production from Kaon, Proton and Antiproton Beams in the Triple Regge Region," *Nuclear Physics*, **B177**, 1 (1981).
 65. Fox, G. C., Tse, T.-Y., Wolfram, S., "Event Shapes in Deep Inelastic Lepton-Hadron Scattering," *Nuclear Physics*, **B165**, 80 (1980).
 66. Fox, G. C., Wolfram, S., "Two and Three-Point Energy Correlations in Hadronic e^+e^- Annihilation," *Zeitschrift fur Physik*, **4C**, 237 (1980).

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68. Fox, G. C. with experimental groups at Caltech, Chicago Circle, Fermilab and Indiana, "Observations of the D and E Mesons and Possible Three Kaon Enhancement in $\pi^- p \rightarrow K^0 K^\pm \pi^\pm X$, $K^0 K^+ K^- X$ at 50 GeV/c and 100 GeV/c," *Phys. Rev.*, **D22**, 1513 (1980).
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71. Fox, G. C., "Untangling Jets from Hadronic Final States," lectures given at the 1981 SLAC Summer School, Proceedings of the SLAC Summer School, August, 1981; Caltech preprint, CALT-68-863.
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74. Fox, G. C., Cole, C. A., Wolfram, S., Greif, J. M., Mjolsness, E. D., Romans, L. J., Shaw, T., and Terrano, A. E. "SMP: A Symbolic Manipulation Program."
75. Fox, G. C., Kelly, R. L., "Gluon Bremsstrahlung Effects in Large p_\perp Hadron-Hadron Scatterings," in *Proton-Antiproton Collider Physics-1981*, AIP Conference proceedings number 85 edited by V. Barger, D. Cline and F. Helzen (AIP, 1982).
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77. Fox, G. C. and Field, R. D., "QCD Monte Carlo Models for e^+e^- Annihilations and Hadron-Hadron Collisions", Invited talk at Europhysics Study Conference on *Jet Dynamics in Quark and Lepton Interactions*, Erice, September, 1982.
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82. Fox, G. C., (with experimental groups from Caltech, U.C. Davis, U.C. San Diego, Carleton, LBL, Michigan State), "An SU(3)-Based Comparison Between Inclusive Kaon and Pion Charge Exchange Scattering in the Triple Regge Region," *Nuclear Physics*, **B206**, 173 (1982).
83. Fox, G. C., (with experimental groups from Caltech, U.C. Davis, U.C. San Diego,

- Carleton, LBL, Michigan State), "A Compilation of Cross-Sections for Inclusive Kaon and Pion Charge Exchange," CALT-68-895 unpublished memo (1982).
84. Fox, G. C., Brooks, E., Otto, S., Randeria, M., Athas, W., DeBenedictis, E., Newton, M., and Seitz C., "Glueball Mass Calculations on an Array of Computers," *Nuclear Physics*, **B220**, 383 (1983).
 85. Fox, G. C., "Use of IBM Personal Computers in the Caltech Physics Department", October 1983 in *Proceedings of 8th IBM University Study Conference*.
 86. Fox, G. C., "Scientific Calculations with Ensemble Computers," Invited talk at the three day in-depth review on the *Impact of Specialized Processors in Elementary Particle Physics*. (University of Padua, 1983), Caltech report C3P-37.
 87. Fox, G. C., (with experimental groups at Caltech, Fermilab, Chicago Circle, and Indiana), "Production of the $K^0 K^\pm \pi^\mp$ system in $\pi^- p$ and $K^- p$ interactions at 50, 100, and 175 GeV/c," *Phys. Rev.*, **D30**, 2411 (1984).
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- Hypercube Multiprocessors*, 1986, edited by M. T. Heath, SIAM (1986) 244, Caltech report C3P-255.
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3. JPL 1988 ``Third Conference on Hypercube Concurrent Computers and Applications;" Chairperson of program committee.
4. Syracuse 1992 ``First International Symposium on High-Performance Distributed Computing," Conference Chair.
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6. San Francisco 1994 ``Third International Symposium on High-Performance Distributed Computing," Conference Chair.
7. Washington, D.C. 1995 ``Fourth International Symposium on High-Performance Distributed Computing," Conference Chair.
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