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陈东

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出国留学宝典

美国名校教授资料精选

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出国留学宝典

美国名校教授资料精选

主 编 陈 东

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内 容 简 介

本书作者本着向广大申请出国人员负责的态度,在总结众多出国申请者的成功经验后,介绍了美国一流大学中不同专业教授的研究方向及通讯地址。

为了方便查阅,本书按照专业进行分类,分别是:数学、物理、制造工程与工业工程、计算机科学、经济管理、机械工程、电子工程、化学、生物学和建筑科学。在不同的专业中,又择其前十几所高校,详细地介绍其教授情况,其中包括:教授姓名、通信地址、电子邮件地址及研究方向。

本书采用了各个学校的最新信息,内容翔实,是一本联系出国人员所必备的参考书、信息库。

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前言

近年来,自费去美国留学的人员越来越多,而曾经是申请者最为苦恼的 TOEFL 和 GRE 考试,也已不再成为大家的障碍了。中国人从小到大,早已习惯了大大小小的各种考试,对这两种千篇一律的考试自然不在话下,况且竟还有国人专门研究它们的规律,以至形成了一个独特的产业。在这种情况下,TOEFL 和 GRE 考试不仅不是大家的障碍,反而成为申请过程中最容易的一个环节,但由此却造成了很多负面影响。考试分数是越来越高,成功率却不见提高,很多人的 TOEFL 和 GRE 考试接近满分,但最后申请不到奖学金,最主要的原因是浪费了大量的时间去准备 TOEFL 和 GRE 考试,而荒废了学业,造成 GPA 很低。GPA 在美国人的眼中比 TOEFL 和 GRE 分数要重要得多,当然这里的前提条件是 TOEFL 和 GRE 分数能达到学校的最低标准。只要 TOEFL 分数超过 600 以及 GRE 分数达到 2000,美国人就认为基本没有什么区别了,主要看学术背景和工作经验。因为毕竟 TOEFL 和 GRE 考试只是语言能力测试,只要能达到相应的标准就可以了,而你是到美国去拿学位,做研究,个人的综合素质和发展潜力是最关键的。

中国人自费去美国留学,绝大多数是依靠美国大学的各种奖学金来资助自己在留学期间的各种费用。在 TOEFL 和 GRE 分数达到最低标准后,如何能成功地争取到美国大学的奖学金就成为申请者最关键的问题。美国大学的奖学金主要分为两种:Scholarship 和 Financial Aid。Scholarship 的金额较大,但数量非常少,通常只授予学习成绩极为优秀的申请者,大多数人主要是申请其他的 Financial Aid。这些 Financial Aid 主要是 Merit-based Financial Aid,此类奖学金以学业、教授的推荐及相关能力为主要的审核依据。这类奖学金主要分为以下几种:a. Fellowship,通常包括学费和生活费,也有的只包括其中之一,授予成绩优异的学生,没有工作的责任,但 Fellowship 种类虽多,却许多仅限于因美国居民而不适合持学生签证的中国学生申请;b. Non-resident Tuition Waiver,减免外州生学费,因名额有限,通常授予成绩优异的学生,若指导教授愿意帮忙,获得的机会要大得多;c. Teaching Assistant,由各系审核授予,负责带实验或讲习课,有的也参与改作业和考卷;d. Research Assistant,由各教授自行选用,协助进行其研究计划,另一方面研究结果也可成为自己的论文资料,因各教授的情况不一,最好的方法就是直接向他们询问其研究兴趣、方向、现有计划。

从以上各种奖学金的种类来看,指导教授在其中具有重要的地位,因此直接与教授联系并请他们帮助获取奖学金就成为大多数申请者的必经之路。要想成功地获得教授的赞许与资助,必须了解哪个教授的研究方向与自己的研究兴趣或正从事的科研课题相关,才能与教授深入交谈技术问题,博得教授的好感,进而得到教授的资助。虽然目前国内关于出国留学的资料很多,但大多数内容雷同,几乎都是关于申请过程的介绍,却无有关教授资料的参考书。本书可以说是填补了国内市场上的空白。本书中的资料都是作者亲自从网上

查询得来，本书的特点是资料新，内容全，介绍美国一流大学中不同专业教授的相关资料，重点突出的是研究方向和学术著作，力求给予众多申请者最实用的信息。书中所介绍的教授如没有特殊说明，都是 Professor 和 Associate Professor，能够指导研究生。

本书由北京卓越文化艺术有限公司总策划，陈东编写。由于时间仓促，所收集的资料可能不全，不足的地方请大家指正。

编 者

1999 年 8 月

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Mathematics (数学)

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New York University

University of Michigan

Columbia University

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研究方向 Research Interests [1] Functional analysis; [2] Operator algebras; [3] Noncommutative analysis.		研究方向 Research Interests [1] Associative rings; [2] Universal algebra; [3] Category theory; [4] Counterexamples.	
学术著作 Publications [1] The curvature invariant of a Hilbert module over $C[z_1, z_d]$ (Revised 10 October 98). [2] Subalgebras of C^* -algebras III: multivariable operator theory (Revised 18 May 97). [3] Pure E_0 -semigroups and absorbing states. [4] The index of quantum dynamical semigroups. [5] Minimal dilations of completely positive semigroups. [6] Path spaces, continuous tensor products, and E_0 -semigroups.		学术著作 Publications [1] Cogroups and Co-rings in Categories of Associative Rings (with Adam O. Hausknecht), A.M.S. Math. Surveys and Monographs, v.45, ix+388pp., 1996; ISBN 0-8218-0495-2. [2] Infinite groups arising from partial presentations of finite groups, preprint, PostScript file, 3/98, 13pp. [3] On k -subspaces of L -vector-spaces, to appear Comm. Alg., PostScript file 2/98, 10pp. [4] Linear ultrafilters, (with Ehud Hrushovski), to appear Comm. Alg., PostScript file 2/98, 35 pp. [5] Supports of derivations, free factorizations, and ranks of fixed subgroups in free groups, to appear, Trans.Amer.Math.Soc., 3/97, 21pp. [6] On the growth of algebras with bialgebra action, Israel J. Math, 96 (1996), part A, pp. 63-96.	

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学术著作 Publications [1] The moduli space of Enriques surfaces and the fake monster Lie superalgebra. Accepted by Topology Feb 1995. [2] A characterization of generalized Kac-Moody algebras. J. Algebra 174, 1073-1079 (1995). [3] Simple groups and string theory, First European congress of mathematics, Paris July 1992, Ed. A. Joseph and others, vol. 1 pp. 411-421, Birkhauser 1994. [4] Monstrous moonshine and monstrous Lie algebras. Invent. Math. 109, 405-444 (1992).		学术著作 Publications [1] Turbulence cascades across equilibrium spectra, Phys Rev E pp. 2616-2619 (1996). [2] Partition functions and equilibrium measures in two-dimensional and quasi-three-dimensional turbulence, Phys Fluids 8 pp. 2656-2660 (1996). [3] Analysis of Kosterlitz-Thouless transition models, Physica D 99 pp. 442-470 (1997). [4] Scaling laws and zero viscosity limits for wall-bounded shear flows and for local structure in developed turbulence, Comm. Pure Appl. Math, 50 pp. 381-398 (1997). [5] Scaling laws and vanishing viscosity limits in turbulence theory, Proc. Symposia Appl. Math. AMS, 54, pp. 1-25 (1998). [6] Scaling laws for fully developed turbulent flow in pipes: Discussion of experimental data, Proc. Natl. Acad. Sci. 94, pp. 773-776 (1997). [7] Scaling laws for fully developed turbulent flow in pipes, Appl. Mech. Rev. 50 pp. 413-429 (1997) (w/ G. I. Barenblatt and V. M. Prostokishin).	

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学术著作 Publications [1] A.R. Calderbank, I. Daubechies, W. Sweldens and B.-L. Yeo, "Lossless image compression using integer to integer wavelet transforms," in the Proceedings of the International Conference on Image Processing, Vol. I, pp. 596-599, October 1997. [2] I. Daubechies, "Recent results in wavelet applications," to appear in Journal of Electronic Imaging special issue on wavelets, October 1998. [3] A. Cohen, W. Dahmen, I. Daubechies, and R. DeVore, Determination of the Kolmogorov entropy of Besov balls by encoding, to appear in the Proceedings of the Annual Conference on Approximation Theory. [4] D.L. Donoho, M. Vetterli, R.A. DeVore, I. Daubechies, Data compression and harmonic analysis, to appear in IEEE Trans. Inf. Theory.		学术著作 Publications [1] Stability and Instability of Relativistic Electrons in Classical Electromagnetic Fields, in proceedings of Conference on Partial Differential Equations and Mathematical Physics, Georgia Inst. of Tech., March, 1997, Amer. Math. Soc. Contemporary Math. series, E. Carlen, E. Harrell, M. Loss eds., 217, 99-108 (1998). [2] A Minkowski Type Trace Inequality and Strong Subadditivity of Quantum Entropy, in Advances in Math. Sciences, in honor of M. Birman, American Math. Soc. (to appear). [3] Ground State Energy of the Low Density Bose Gas, Phys. Rev. Lett. 80, 2504-2507 (1998). [4] A guide to Entropy and the Second Law of Thermodynamics, Notices of the Amer. Math. Soc. 45, 571-581 (1998). [5] The Physics and Mathematics of the Second Law of Thermodynamics, Physics Reports (in press). [6] A Sharp Bound for an Eigenvalue Moment of the One-Dimensional Schroedinger Operator, Adv. Theor. Math. Phys. 2, (1998).	

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研究方向 Research Interests [1] Combinatorial Theory; [2] Algebraic Combinatorics; [3] Statistics for Applications; [4] Combinatorial Analysis.		研究方向 Research Interests [1] Dimensional topology; [2] Partial differential equations; [3] Graphics Theory.	
学术著作 Publications [1] Fibered quadratic Hopf algebras related to Schubert calculus (with C.Procesi, 8 pages)to appear in Journal of Algebra. [2] Quadratic algebras, Dunkl elements, and Schubert calculus (with A.N.Kirillov, 34 pages)to appear in Progress in Geometry. [3] Quantum Schubert Polynomials (with S.Gelfand and A.Postnikov) Journal of the AMS 10 (1997), 565-596. [4] Noncommutative Schur functions and their applications (with C.Greene, 21 pages) Discrete Mathematics 193 (1998), 179-200.		学术著作 Publications [1] A comparison of two graphs, Int.Math.Res.Notices (1997), 639-640. [2] Constructible functions on the Steinberg variety, Adv.in Math. 130(1997), 287-310. [3] Total positivity in partial flag manifolds, Represent.Th. 2(1998), 70-78. [4] Introduction to total positivity, in "Positivity in Lie theory: open problems" ed. J.Hilgert,J.D.Lawson,K.H.Neeb,E.B.Vinberg, de Gruyter 1998. [5] On quiver varieties, Adv.Math. 136(1998), 141-182. [6] Homology bases arising from reductive groups over a finite field, to appear Proc. Cambridge Conf. Canonical bases and Hall algebras, to appear Proc. Montreal Conf., Kluwer. Bases in equivariant K-theory. Mon Jun 22 18:34:20 EDT 1998.	

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研究方向 Research Interests [1] E-infinity algebras; [2] E-infinity ring spectra, and their applications to homotopy theory.		研究方向 Research Interests [1] Automata theory; [2] Computability theory; [3] Complexity theory; [4] Algebraic geometry.	
学术著作 Publications [1] (with A. D. Elmendorf, I. Kriz, and J. P. May) Modern Foundations for Stable Homotopy Theory. Handbook of Algebraic Topology (I. M. James, ed.), pp. 213-253. [2] (with A. D. Elmendorf, I. Kriz, and J. P. May) Rings, Modules, and Algebras in Stable Homotopy Theory. Amer. Math. Soc. Surveys and Monographs volume 47, 1997. Errata. [3] Thesis: E-infinity Algebras and p-Adic Homotopy Theory. [4] Equivalence of Simplicial Localizations of Closed Model Categories. (Updated Dec 12, 1997) To appear in J.P.A.A., 1999. [5] The Homotopy Theory of E-infinity Algebras. (Updated Jan 26, 1998). [6] E-infinity Algebras and p-Adic Homotopy Theory. (Updated Jan 26, 1998). [7] Algebraization of E-infinity Ring Spectra. (April 20, 1998).		学术著作 Publications [1] A.J. de Jong, Barsotti-Tate groups and crystals, Proceedings ICM 1998 (Berlin), volume II, pp. 259-265. [2] D. Abramovich, A.J. de Jong, Smoothness, semi-stability and toroidal geometry, Journal of Algebraic Geometry, 6 (1997), pp. 789-801. [3] F. Oort, A.J. de Jong, Hyperelliptic curves in Abelian Varieties, Published in: "Manin's Festschrift", Journal of mathematical sciences, 82 (1997), pp. 141-166. [4] A.J. de Jong, A result on formal linearity, Preprint 911 of the University of Utrecht, April 1995. [5] A.J. de Jong, Finite locally free group schemes in characteristic p and Dieudonné modules, Inventiones mathematicae, 114 (1993), pp. 89-137.	