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INVITED KEYNOTE SPEAKER

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***WHO'S THE EXPERT
ON EXPERTISE ?***



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WHO'S THE EXPERT ON EXPERTS ?

Considerado pela maioria dos pares e colegas como o **"world's top expert on expertise"**, K. ERICSSON é actualmente também **Consultor do Florida Center for Research on Education in Science, Technology, Engineering, and Mathematics (FCR-STEM) International Advisory Committee**. Paralelamente, e desde 1993 é o Investigador Principal para os recursos de investigação da *"Conradi Eminent Scholar Endowment in the Florida State Foundation"*.

K. A. ERICSSON é um dos membros do **"Learning Systems Institute's Center for Expert Performance Research (CEPR)"**, um centro de investigação dedicado e desenhado especificamente para o exame e análise objectivo do rendimento *expert*. Este Centro engloba equipamento de medida e simulação de topo, utilizado para criar tarefas representativas e "capturar" as características essenciais da *expertise*. A investigação actual centra-se sobretudo na estrutura e aquisição de rendimento especializado, envolvendo trabalho com *"expert cohorts"* nos seguintes domínios: **"law enforcement, critical care nursing, emergency medicine, sport and the military"**. Desenvolvem igualmente projectos conjuntos e de colaboração não só com outras universidades da Florida (**Florida Alliance for the Study of Expertise; FASE**), mas também em todos os EUA (**National Alliance for Expertise Studies**).

K. ANDERS ERICSSON, doutorou-se em 1976 na **Universidade de Estocolmo (Suécia)**, tendo de seguida efectuado os seus estudos de pós-doutoramento na **Carnegie-Mellon University**. Antes de ingressar na Universidade da Florida, onde iniciou o Programa de Doutoramento em Psicologia Cognitiva, foi Professor

na **Universidade do Colorado – Boulder** (EUA), tendo ainda desenvolvido a sua actividade durante dois anos no **Max-Planck Institute for Human Development and Education** em Berlim (Alemanha).

As suas actuais e principais áreas de investigação distribuem-se por três temas principais: ***The Acquisition of Expert Performance and Deliberate Practice; Superior Memory of Experts and Long-Term Working Memory (LTWM); e Protocol Analysis and Verbal Reports on Thinking.*** Nestas áreas seus mais recentes estudos têm envolvido populações de “experts” em domínios tão variados como os da **ciência, medicina, enfermagem, desporto e jogos, música, direito e auditoria**. Uma questão central que tem orientado os seus estudos tem sido assim procurar responder à questão: ***“Como é que os “experts”, em diferentes domínios, se tornam os melhores entre os melhores ?”.***

K. A. ERICSSON é ainda autor de cerca de **200 artigos e capítulos de livros** nas mais prestigiadas publicações científicas, para além de mais de **250 apresentações e conferências principais** em reuniões científicas internacionais de nível mundial.

BOOKS - SELECTED

Cambridge Handbook of Expertise and Expert Performance (2006);

Expert Performance in Sport: Recent Advances in Research on Sport Expertise (2003);

The Road to Excellence: The Acquisition of Expert Performance in the Arts and Sciences, Sports, And Games (1996);

Protocol analysis: Verbal reports as data (revised edition) (1993);

Toward a general theory of expertise: Prospects and limits (1991);

The complexity and power of deliberate thought: From protocol analysis of exceptional memory to in-vivo dissection of expert performance (in press);

Development of professional expertise: Approaches based on objective measurement of superior performance and design of optimal learning environments (in press).

ARTICLES AND CHAPTERS - *SELECTED* (2006 – 2008)

- Ericsson, K. A. (2006). Protocol analysis and expert thought: Concurrent verbalizations of thinking during experts' performance on representative task.
- Ericsson, K. A. (2006). The influence of experience and deliberate practice on the development of superior expert performance.
- Cokely, E.T., Andersson, P., & Ericsson, K.A. (2006). The enigma of financial expertise: Superior and reproducible investment performance in efficient markets.
- Tashman, L.S., Harris, K.R., Ramrattan, J., Ward, P., Eccles, D.W., Ericsson, K.A., Williams, A.M., Rodrick, D., & Lang, L.H. (2006). Expert performance in law enforcement: Are skilled performers more effectively constraining the situation to resolve representative dynamic tasks than novices?
- Ericsson, K. A., Whyte, J., & Ward, P. (2007). Expert performance in nursing: Reviewing research on expertise in nursing within the framework of the expert-performance approach.
- Ericsson, K. A. (2007). Deliberate practice and the modifiability of body and mind: Toward a science of the structure and acquisition of expert and elite performance.
- Ericsson, K. A. Roring, R. W., & Nandagopal, K. (2007). Giftedness and evidence for reproducibly superior performance: An account based on the expert-performance framework.
- Ericsson, K. A. Roring, R. W., & Nandagopal, K. (2007). Misunderstandings, agreements, and disagreements: Toward a cumulative science of reproducibly superior aspects of giftedness.
- Sandgren, M., & Ericsson, K. A. (2007). The complexity of artistic strivings and anxiety among opera singers.
- Ward, P., Harris, K. R., Ericsson, K. A., Eccles, D. W., Tashman, L., & Lang, L. (2007). Cognitive basis for expert and superior performance in law enforcement.
- Mc Robert, A. P., Williams, A. M., Ward, P., Eccles, D. W., & Ericsson, K. A. (2007). Contextual information and anticipation skill in cricket batting.
- Ericsson, K. A., & Williams, A. M. (2007). Capturing naturally-occurring superior performance in the laboratory: Translational research on expert performance.
- Ericsson, K. A., Prietula, M. J., & Cokely, E. T. (2007). The making of an expert.

- Ericsson, K. A., & Roring, R. W. (2007). Memory as a fully integrated aspect of skilled and expert performance.
- Roring, R. W., Nandagopal, K., & Ericsson, K. A. (2007). Can Parieto-Frontal Integration Theory be extended to account for individual differences in skilled and expert performance in everyday life?
- Ericsson, K. A., & Ward, P. (2007). Capturing the naturally occurring superior performance of experts in the laboratory: Toward a science of expert and exceptional performance.
- Ericsson, K. A. (2007). An Expert-Performance Perspective on Medical Expertise: Study Superior Clinical Performance rather than Experienced Clinicians!
- Ericsson, K. A., Nandagopal, K., & Roring, R. W. (in press). Toward a Science of Exceptional Achievement: Attaining Superior Performance through Deliberate Practice. *Annals of New York Academy of Science*.
- Ericsson, K. A., Nandagopal, K., & Roring, R. W. (in press). An expert-performance approach to the study of giftedness. In L. Shavinina (Ed.), *International handbook of giftedness*.
- Ericsson, K. A. (in press). Expertise. In R. F. Baumeister and K. Vohs (Eds), *Handbook of social psychology*. Thousand Oaks, CA: Sage.
- Ericsson, K. A., Chase, W. G., & Faloon, S. (in press/1980). Acquisition of a memory skill._Republished in J. Jackie Andrade (Ed.), *Memory: Critical concepts in psychology*.

TEMAS / ÁREAS DE INVESTIGAÇÃO / PROJECTOS RECENTES

- *Florida Alliance for Research on Expertise (FASE), Catalyst Grant for Expertise Center, National Science Foundation, Preparation for Center Grant on Expertise in Learning Systems.*
- *Acquisition of long-term working memory as a means for skilled performers to maintain situation awareness under stress.*
- *Applying the Expert Performance Approach to the Development and Maintenance of Skilled and Expert Performance in the Navy.*
- *Acquisition of long-term memory as a means for skilled performers to maintain situation awareness under stress.*
- *The Acquisition of Adaptive Skills: An Application of the Expert-Performance Approach to the Development of Training Based on Deliberate Practice and Deep Learning.*

- *Study of social factors influencing test performance.*
- *Race, psychosocial factors and the temporal relation of depression to cognitive decline in the elderly.*

DESCRIÇÃO E RELATOS DA SUA INVESTIGAÇÃO NA IMPRENSA INTERNACIONAL (2006-...)

Unger, K. (2006). Can't Forget to Remember **ScienceNOW Daily News** (March 14)

Dubner, S. J., & Levitt, S. D. (2006). A star is made - Where does talent really come from. **New York Times**, Magazine, 24-25 (May 7).

Foer, J. (2006). How to win the Memory World Championships? **Discover** Magazine, 62-66 (April issue).

Ross, P. E. (2006). The expert mind—Studies of mental process of chess grandmasters have revealed clues to how to become experts in other fields as well. **Scientific American**, 64-71 (August issue)

Aschoff, S. (2006). Anyone can have his shot. **St Petersburg Times** (May 27)

Collier, C. P. (2006). Practice smarter-A new way to improve—at anything. **National Geographic Adventure**, September, 38-39

Dobbs, D. (2006). How to be a genius. **New Scientist**, Issue 2569, 15 September 2006, pp. 40-43.

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Foer, J. (2007). Remember this: In the archives of our brain our lives linger and disappear. **National Geographic Magazine**, November issue, pp.

Potter, L. (2007). Safety in numbers. **The Observer**, November 11

Mulholland, S. (2008) Genius in the making, **The Times** (London), January 31st, Life & Style section.

Kinderman, G. (2008) Alles kan; Expertise-expert Anders Ericsson. **De psycholoog**, 43 (Februari), pp. 99-101.

Cloud, J. (2008). The science of experience. **Time**, 171 (10), March 10, 30-33.