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Kevin J. Gilmartin,

an American [psychologist](#) with a Ph.D. in 1974 from [Carnegie Mellon University](#) under thesis advisor [Herbert Simon](#). Gilmartin and Simon extended Simon's and [Barenfeld's](#) program [Perceiver](#), which was able to duplicate the [eye movements](#) of a chess expert by adhering to the simple relations of attack and defense ^[1] into a system called [MAPP](#) (Memory-aided Pattern Perceiver) which uses the [learning](#) mechanism of [EPAM](#), and reinforced the [chunking](#) hypothesis by subjecting MAPP to the [same board reconstruction experiment](#) that the human players faced ^[2]. By determining the patterns present on the board, and restricted to the same short-term memory constraints as humans ^[3], MAPP was able to reconstruct positions with 73% accuracy ^{[4] [5]}.

See also

- [Chunking](#)
- [Cognition](#)
- [EPAM](#)
- [MAPP](#)
- [Psychology](#)

Selected Publications

^[6]

- [Herbert Simon](#), [Kevin J. Gilmartin](#) (1973). *A Simulation of Memory for Chess Positions*. Cognitive Psychology, Vol. 5, pp. 29-46
- [Kevin J. Gilmartin](#) (1979). [Social indicators: an annotated bibliography of current literature](#). [Garland reference library of social science](#)

References

1. [^ Herbert Simon, Michael Barenfeld \(1969\). Information-processing analysis of perceptual processes in problem solving.](#) Psychological Review, Vol. 76, No. 5
2. [^ William Chase, Herbert Simon \(1973\). Perception in chess. Cognitive Psychology](#), Vol. 4, No. 1
3. [^ George Armitage Miller \(1956\). The Magical Number Seven, Plus or Minus Two. Psychological Review](#), Vol. 101, No. 2, [pdf](#)
4. [^ Herbert Simon, Kevin J. Gilmartin \(1973\). A Simulation of Memory for Chess Positions.](#) Cognitive Psychology, Vol. 5, pp. 29-46. [pdf](#)
5. [^ Michael George, Jonathan Schaeffer \(1990\). Chunking for Experience. ICCA Journal, Vol. 13, No. 3, pdf](#)
6. [^ ICGA Reference Database](#) (pdf)

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| Carnegie Mellon University | Feb 12, 2018 |
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