

Caroline Watt

Caroline Watt is a Scottish psychologist and founder member of the University of Edinburgh's Koestler Parapsychology Unit, holding the post of chair there between 2016 and 2024. Now emeritus professor of parapsychology, she has made contributions to understanding psi from both a proponent and sceptic angle, with an emphasis on improving methodological rigour. In June 2025 she was elected president of the Society for Psychical Research.

Career

Caroline Watt graduated with a Masters degree in [psychology](#) from the [University of St Andrews](#) in 1984. In 1986 she started work as a research assistant with the first Koestler Professor, [Robert Morris](#), and was a founding member of the [Koestler Parapsychology Unit \(KPU\)](#), based in the University's psychology department. She obtained a PhD in 1993 under Morris's supervision.

Watt continued at the KPU until 2006 as a research fellow, then took up an appointment as senior lecturer in psychology at the [University of Edinburgh](#). In 2010, she won the Perrott-Warrick Senior Researcher fellowship, and in 2016 was appointed Koestler Chair of Parapsychology, supervising postgraduate students and teaching, including an online parapsychology course. She retired in 2024 and in 2025 was elected president of the Society for Psychical Research.

Ganzfeld ESP Research

Watt's main research focus in the last few years has been ganzfeld ESP, aided by her PhD student Abby Pooley, who is exploring methodological lessons.

Precognition in the Ganzfeld

Increasingly, parapsychologists are preregistering experiments online in order to advance methodological quality. This practice is exemplified in a Ganzfeld precognition study published by Watt and co-authors in 2020 that sought to optimize any potential psi effect size by selecting participants for self-reported creativity, prior psi experience, belief, or proficiency in mental disciplines. Unusually, the study also attempted to address experimenter effects by selecting experimenters with a positive expectation for the study outcome, and limiting each experimenter to conducting twenty trials. The team streamlined the methodology to ensure data security by using an automated precognition design. Following the ganzfeld impression period, participants rated four video clips against their mentation reports; the target clip was then randomly selected and played to them as feedback. Direct hits occurred 22 times out of 60 (37%) where 25% is expected by chance. This was statistically significant ($p = 0.03$). The authors concluded these data support the study hypothesis that participants would be able to correctly identify the randomly chosen future target video clip.[1](#)

A follow-up large scale ganzfeld precognition study with selected participants has been completed and will be published shortly. Preregistration details can be found [here](#).

Sender-Receiver Factors

In a recent publication in the *Journal of Anomalous Experience and Cognition*, Watt, Pooley and Murray explored what factors between senders and receivers are important in psi-hitting. Forty-one studies comprising 1,624 sessions published between 1988 and 2021 entered the meta-analysis. Out of five key factors examined, two appeared to make a significant difference to the outcomes: 1) senders given audible access to receiver mentation and 2) post-session joint receiver-experimenter judging of mentation, with the former associated with 7% increase in hit rate and the latter a 10% decrease in hit rate. The authors speculate that for 1: hearing receivers describe their impressions may motivate the senders to focus and that for 2: allowing experimenters to interact with receivers might impair their judgments resulting in reduced hit rates.²

Methodological Advances

Replication Issues

Together with parapsychologist and methodologist Jim Kennedy, Watt has focused attention on the need for improved reporting standards in the behavioural sciences. Watt and Kennedy describe their creation³ of an online registry of psi studies at the Koestler Parapsychology Unit, which now has more than 80 pre-registered studies.⁴ Based on their experiences running the KPU Registry, Watt and Kennedy⁵ have advised psychologists how to improve study registration practices in psychology. Although mainstream psychologists are only now beginning to address these issues, the *European Journal of Parapsychology* pioneered the option of journal-based pre-registration of experiments in 1978. To judge the impact on outcomes, Watt and psychologist and psi skeptic Richard Wiseman compared experimental findings for pre-registered versus non pre-registered studies, finding a clear decrease in the number of significant studies when authors adopted the former model.⁶

Prospective Meta-Analysis

Just as study registration can be used to improve the conduct and reporting of individual studies, the same principle can be applied to the analysis of groups of studies. The statistical technique of meta-analysis as it is usually applied (retrospectively) has had only limited success in resolving debates about psi. Often debate centres on whether researcher bias has influenced the criteria for conducting the meta-analysis. Watt and Kennedy propose a registration-based prospective meta-analysis for psi research, in which the criteria for studies to be included in a meta-analysis are decided in advance of the study results being known. In order to prevent bias, studies must be registered before data collection begins (pre-registration). Such a meta-analysis would be of greater evidential value

if it returned a positive outcome. Such an initiative that explored psi in the Ganzfeld, completed in 2020, is described below.[7](#)

Controversial Claims in Psychology

Magic-based Health Interventions

Watt and Wiseman reviewed studies that test the claim that learning magic tricks can offer therapeutic benefit and increase well-being in certain clinical populations. They found that most of the studies revealed beneficial outcomes, but most were of poor methodological quality, with small numbers of participants and a lack of control groups. The review offers guidance on improving methodological quality.[8](#)

Neuro-Linguistic Programming

Watt and Wiseman tested the assertion by practitioners of Neuro-Linguistic Programming (NLP) that certain eye-movements are indicators of lying. The eye movements of lying subjects were recorded but these did not match those expected from NLP. In a follow-up study the eye movements of both liars and truth-tellers in high profile press conferences were coded blindly by independent judges. No significant differences were found between liars and truth-tellers. Overall, the claims of NLP did not hold up to scrutiny.[9](#)

Distant Influence

Placebo Effect in Distant Healing

Watt and Easter investigated the role of expectancy effects in a distant healing experiment, testing whether healing outcomes were affected either by a person's belief in healing or their knowledge of which group (healing or control) they were placed in or. Sixty participants were recruited from a rheumatology outpatient clinic and randomly allocated to either the control or healing group. Awareness of being a recipient of distant healing was found to be associated with an improvement in health, whereas participants unaware of what group they were allocated showed no improvement. Pre-existing belief in healing had no effect on outcomes. The dominant influence on health was knowledge of group allocation.[10](#)

Experimenter Effects in Remote Helping

Studies have shown that a remotely located person is able to influence, at a distance, the ability of a person to focus attention on a simple task.[11](#) Watt and Ramakers carried out an extension experiment in which a 'helpee' focuses attention on a candle and presses a button whenever she feels distracted, while a 'helper' focuses attention at randomly determined intervals on improving the concentration of the helpee, resulting in fewer button presses. Nine believers in psi and five disbelievers were trained to conduct an experimental session and then conducted 36 psi trials each. Overall, there were fewer button presses compared to the control sessions ($p = 0.04$) indicating evidence for distant influence on attention. Additionally, there was a clear cut experimenter effect: psi believer

experimenters were more successful than disbeliever experimenters at eliciting a distant influence effect from participants.[12](#)

Blocking and Co-operating Strategies

Can the distant influence effect be blocked by the influencee? In a study with 32 participants (influencees) and three influencers, Watt found no difference in distant influence on receiver's electrodermal activity (EDA) between co-operating and blocking conditions. A second study with 50 participants and two influencers likewise found no difference in outcomes between cooperating and blocking conditions but there was evidence of an overall distant influence effect ($p = 0.04$). Watt concluded that there was overall evidence of a distant influencing effect but no evidence that influencee mental strategies made any difference to the results.[13](#)

Psi-Supportive vs Unsupportive Experimenters

In order to measure the impact of experimenter approach on distant influence effects, eighty participants were greeted by an experimenter who gave either psi-supportive or negative suggestions before a remote facilitation of attention focusing task. No overall remote facilitation of focusing effect was found, and there was also no measurable impact of psi positive or negative suggestions on psi performance. There was a statistically significant effect of suggestion on a variety of psychological factors but not on the psi task itself.[14](#)

Twitter and Remote Viewing

Watt and Wiseman enlisted thousands of Twitter users to try to remote view a randomly chosen target being visited and 'transmitted' by an experimenter. The first half of the experiment involved non-blinded judging by the participants themselves, who unsurprisingly rated the known target as corresponding the most with their remote viewings; the greater their belief, the greater the rated correspondences. When blind judging was applied the results fell exactly at chance and the relationship between belief in remote viewing and psi scoring disappeared.[15](#)

Belief in Good Luck

Belief and expectation are important factors in psi outcomes. Watt arranged for 60 volunteers to take part in a study designed to explore the relationship between belief in luck and performance at two games of chance: the UK National Lottery and dice throwing. As predicted, belief in good luck correlated positively with expected success in lottery ($p = 0.02$) and dice throwing ($p = 0.01$). Participants who believed that they would be lucky at the lottery performed significantly better than those who didn't ($p = 0.013$).[16](#)

What makes a good psi target?

The issue of optimal target selection is still not settled within the parapsychological community. To investigate this, Watt carried out forced-choice

studies in which the targets were pictures, either emotionally reactive or neutral, that varied in complexity. Participants tried to use ESP to guess whether each target was emotional or neutral. Overall scoring across three studies revealed no difference between emotional and neutral pictures, but there was a non-significant trend towards greater psi identification of complex picture targets.[17](#)

Dream-Precognition

Watt pursued a programme of [dream precognition](#) research with the support of the Perrott-Warrick Senior Researcher Fellowship. Dream ESP studies have become less successful since home testing replaced the use of sleep laboratory studies since the 1970s. Some have attributed this to the lack of EEG monitoring and recording of mentation. To test this view, Watt arranged for 20 participants, selected for prior precognitive dream experience, to sleep in a laboratory, and encouraged them to dream about a target picture that they would later view. An independent judge rated the dreams against the target and decoys. Watt found no evidence for dream precognition, suggesting that the hypothesis was unsupported. Further work aimed solely at understanding the psychological underpinnings of precognitive dreaming found no support for the assertion by sceptics that they are produced by implicit processing.[18](#) However, evidence was found that selective recall and propensity to find correspondences between dream mentation and real-world events could act to exaggerate the frequency of perceived spontaneous precognitive dream experiences.[19](#) Watt also found that the method by which spontaneous precognitive dream reports were collected could bias the reported characteristics. Retrospectively-reported precognitive dreams tended to be rated as more vivid and emotionally intense than prospectively recorded precognitive dreams[20](#)

Diversity in Parapsychology

In a 2022 publication, Watt provides a personal perspective on diversity issues in parapsychology, traversing her early childhood in a farming family in Scotland, followed by her state education and degree training at St Andrews University and the move to Edinburgh's Koestler Unit. Watt observes that women are well-represented in parapsychology, but typically suffer greater obstacles to remaining in the field, including delayed career progression due to maternity leave. She acknowledges advances in this area, while underscoring the need to address forms of inequality that stubbornly persist. [21](#)

Literature

Pooley, A., Murray, A., & Watt, C. (2023). [Understanding the factors at play in the sender-receiver dynamic during the telepathy ganzfeld: A meta-analysis.](#) *Journal of Anomalous Experience and Cognition* 3/1, 42-77.

Watt, C.A. (1990-1991). Psychology and coincidences. *European Journal of Parapsychology* 8, 66-84.

Watt, C.A. (1990). The value of spontaneous cases. *Journal of the Society for Psychical Research* 56, 273-286.

Watt, C.A. (1992) Defensiveness and psi: Problems and prospects. In *Research in Parapsychology 1990*, ed. by L.A. Henkel & G.R. Schmeidler, 102-6. Metuchen, New Jersey, USA: Scarecrow Press.

Watt, C.A., & Morris, R.L. (1995). The relationships among performance on a prototype indicator of perceptual defence/vigilance, personality, and extrasensory perception. *Personality and Individual Differences* 19, 635-648.

Watt, C.A. (1996). What makes a good psi target? Three studies of forced-choice ESP varying target emotionality and complexity. *Journal of Parapsychology* 60, 25-41.

Watt, C., Ravenscroft, J., & McDermott, Z. (1999). Exploring the limits of direct mental influence: Two studies comparing “blocking” and “co-operating” strategies. *Journal for Scientific Exploration* 13, 515-535.

Watt, C., & Nagtegaal, M. (2000). Luck in action? Belief in good luck, psi-mediated instrumental response, and games of chance. *Journal of Parapsychology* 64, 19-38.

Watt, C., & Wiseman, R. (2002). Experimenter differences in cognitive correlates of paranormal belief, and in psi. *Journal of Parapsychology* 66, 371-385.

Watt, C., & Baker, I. (2002). Remote facilitation of attention focusing with psi-supportive versus psi-unsupportive experimenter suggestions. *Journal of Parapsychology* 66, 151-168.

Watt, C., & Ramakers, P. (2003). Experimenter effects with a remote facilitation of attention focusing task: A study with multiple believer and disbeliever experimenters. *Journal of Parapsychology* 67, 23-32

Edge, H., & Morris, R. (2004). Two cognitive DMILS studies in Bali. *Journal of Parapsychology* 68.

Watt, C., & Wiseman, R. (2010). ‘Twitter’ as a new research tool: Proof of principle with a mass participation test of remote viewing. *European Journal of Parapsychology* 25, 89-100.

Watt, C., & Easter, A. (2011). It’s good to know: How treatment knowledge and belief affect the outcome of distance healing intentionality for arthritis sufferers. *Journal of Psychosomatic Research* 71, 86-89.

Watt, C., & Wiseman, R. (2012). The eyes don’t gave it: Lie detection and neuro-linguistic programming. *PloS one* 7. e40259. 10.1371/journal.pone.0040259.

Valasek, M., Watt, C., Hutton, J., Neill, R., Nuttall, R., & Renwick, G. (2014). Testing the implicit processing hypothesis of precognitive dream experience. *Consciousness and Cognition* 28, 113-125.

Watt, C., Ashley, N., Gillett, J., Halewood, M., & Hanson, R. (2014). Psychological factors in precognitive dream experiences: The role of paranormal belief, selective recall and propensity to find correspondences. *International Journal of Dream Research* 7, 1-8.

- Watt, C. (2014). Precognitive dreaming: Investigating anomalous cognition and psychological factors. *Journal of Parapsychology* 78, 115-125.
- Watt, C., Valášek, M., Cawthron, S., & Almanza, A. (2015). In the eye of the beholder: Uncovering the characteristics of prospectively reported spontaneous precognitive dreams. *Journal of the Society for Psychical Research* 79, 18-33.
- Watt, C. (2022). [On being a \(white, middle class\) woman in parapsychology.](#) *Journal of Anomalistics* 22/2, 280-85.
- Watt, C., & Vuillaume, L. (2015). Dream Precognition and Sensory Incorporation: A Controlled Sleep Laboratory Study. *Journal of Consciousness Studies* 22, 12-19
- Watt, C., & Kennedy, J. (2015). Lessons from the first two years of operating a study registry. *Frontiers in Psychology* 6, 173. 10.3389/fpsyg.2015.00173
- Watt, C., & Kennedy, J. (2017). Options for Prospective Meta-Analysis and Introduction of Registration-Based Prospective Meta-Analysis. *Frontiers in Psychology* 7. 10.3389/fpsyg.2016.02030
- Watt, C., & Wiseman, R. (2018). Achieving the impossible: A review of magic-based interventions and their effects on well-being. *PeerJ*, 6. e6081. 10.7717/peerj.6081
- Watt, C., Wiseman, R., & Kornbrot, D. (2019). Registered reports: An early example and analysis. *PeerJ*, 7. e6232. 10.7717/peerj.6232.
- Watt, C., Dawson, E., Tullo, A., Pooley, A., & Rice, H. (2020) Testing precognition and altered state of consciousness with selected participants in the ganzfeld. *Journal of Parapsychology*, 84/1, 21-37.

Endnotes

Footnotes

- [1.](#) Watt et al. (2020).
- [2.](#) Pooley et al. (2023), 20.
- [3.](#) Watt & Kennedy (2017).
- [4.](#) Watt & Kennedy (2015).
- [5.](#) Watt & Kennedy (2015).
- [6.](#) Watt et al. (2019).
- [7.](#) Watt et al. (2019).
- [8.](#) Watt & Wiseman (2018).
- [9.](#) Watt & Wiseman (2012).
- [10.](#) Watt & Easter (2011).
- [11.](#) Edge & Morris (2004).
https://www.researchgate.net/publication/251798430_Two_cognitive_DMILS_studies_in_Bali
- [12.](#) Watt & Ramakers (2003).
- [13.](#) Watt et al. (1999)
- [14.](#) Watt & Baker (2002).
- [15.](#) Watt & Wiseman (2010)

- [16.](#) Watt and Nagtegaal, M. (2000).
- [17.](#) Watt (1996).
- [18.](#) Valasek et al. (2014)
- [19.](#) Watt, Ashley, et al. (2014)
- [20.](#) Watt et al. (2015)
- [21.](#) Watt (2022).

© Psi Encyclopedia