

Galvanic Skin Response(GSR)

(2) History

Here is a clear and concise timeline of Galvanic Skin Response (GSR) history.

Year	Scientist/Entity	Discovery/Contribution	Significance
1849	Emil du Bois-Reymond (Germany)	Observed skin electrical activity during muscle contraction.	First to document bioelectric phenomena in skin; paved the way for EDA research.
1878	Hermann & Luchsinger (Switzerland)	Linked EDA to sweat gland activity; found strongest responses on palms.	Shifted focus from muscles to autonomic nervous system responses.
1879	Charles Vigouroux (France)	Studied EDA in emotionally disturbed patients.	First connection between EDA and psychological states.

1888	Féré (France)	Proved EDA varies with emotions and is affected by drugs.	Strengthened the link between EDA and emotional arousal.
1889	Ivane Tarkhnishvili (Russia)	Built first real-time skin potential meter; recorded EDA with no external stimuli.	Laid the groundwork for continuous physiological monitoring.
1906	Carl Jung (Switzerland)	Used EDA to study unconscious responses in word association tasks.	Introduced EDA to psychoanalysis; called it a "mirror to the unconscious."
1935–36	Wilhelm Reich (Austria/Norway)	Investigated EDA as proof of "bio-electrical" energy flow (controversial work).	Although debated, this helped expand psychological interest in GSR.
1970s	Various Researchers	Over 1,500 studies published; EDA used widely in lie detection, psychology, and stress research.	Firm establishment of EDA as a mainstream psychophysiological tool.
1990s	MIT & Stanford Labs	Start of wearable sensor research.	Early prototypes of portable

			GSR devices for field use.
2000s	Rosalind Picard (MIT Media Lab)	Developed wearable GSR devices (e.g., Empatica); applied to autism, stress, and epilepsy.	Made EDA practical, reliable, and wearable—merged it with affective computing.
2010s	Ioannis Pavlidis (University of Houston)	Created contactless GSR monitoring via thermal imaging.	Revolutionized GSR by enabling non-invasive, remote emotional tracking.
Present	Multiple Startups & Research Labs	Use of GSR in smartwatches, fitness trackers, mental health apps, AI interfaces.	GSR now powers real-time emotional monitoring, digital health, and AI-driven biofeedback.