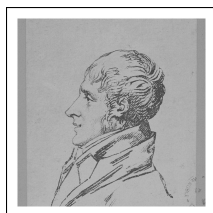


Final Exam
SDS 391P.6, Spring 2026
Pratik Patil

The Face Alphabet

A fun matching game for the end of the course! Try the photo side first; the name bank is on the back.

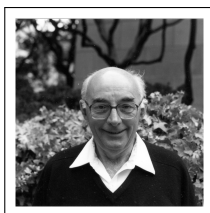
Note. To keep this as a playful historical matching game, and to avoid using images of living scholars, this sheet includes only people who are no longer living. Many memorable living researchers whose work shaped the course are therefore omitted with appreciation.



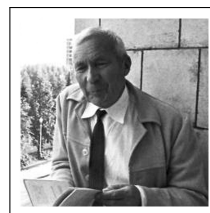
A



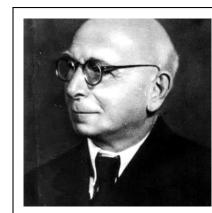
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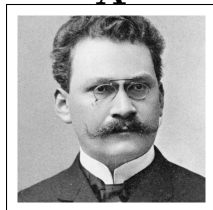
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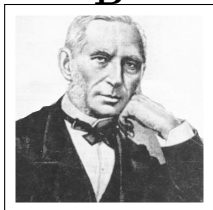
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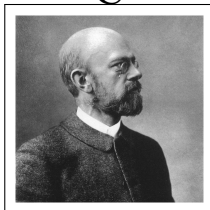
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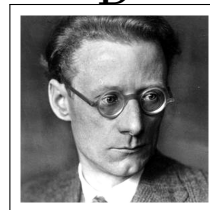
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G



H



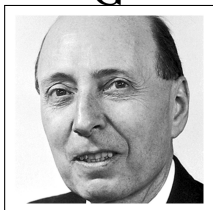
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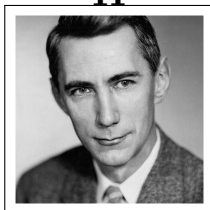
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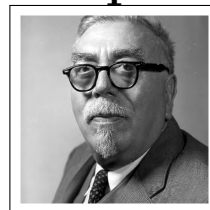
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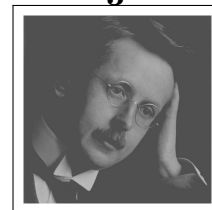
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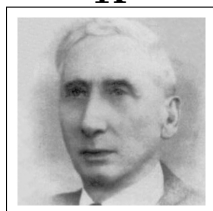
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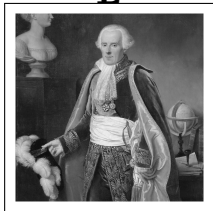
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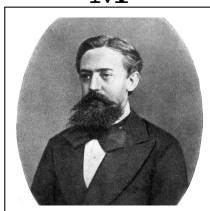
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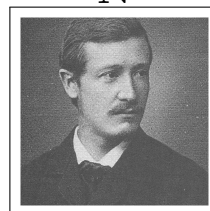
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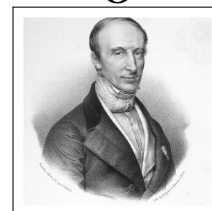
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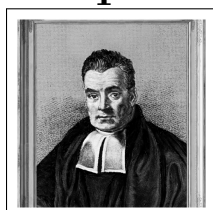
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S



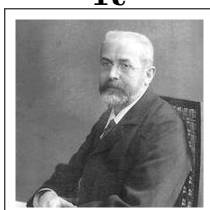
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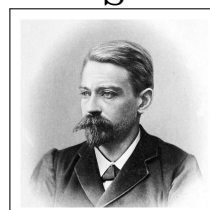
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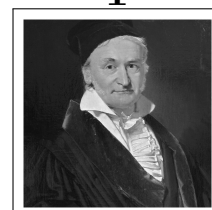
V



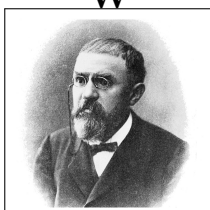
W



X



Y



Z

Final Exam
SDS 391P.6, Spring 2026
Pratik Patil

The Face Alphabet

Write the portrait letter next to each name. Optional: add the theorem, inequality, or idea you associate with the person.

Thomas Bayes

Match letter: ____

Bayesian decision viewpoint, Bayes risk

Ferdinand Frobenius

Match letter: ____

Frobenius norm, matrix variance scales

Henri Poincaré

Match letter: ____

Poincaré inequalities, variance bounds

Sergei Bernstein

Match letter: ____

Bernstein inequalities, Bernstein polynomials

Carl Friedrich Gauss

Match letter: ____

Gaussian variables, Gaussian processes

Hans Rademacher

Match letter: ____

Rademacher variables, processes, and complexity

Lucien Le Cam

Match letter: ____

Le Cam's method for minimax lower bounds

David Hilbert

Match letter: ____

Hilbert spaces, RKHS geometry

Claude Shannon

Match letter: ____

Information, entropy, minimax lower bounds

Francesco Paolo Cantelli

Match letter: ____

Cantelli inequality, Glivenko-Cantelli theorem

Otto Hölder

Match letter: ____

Hölder inequality, dual norms, Hölder continuity

Sergei Sobolev

Match letter: ____

Sobolev smoothness classes, embedding theorems

Constantin Carathéodory

Match letter: ____

Carathéodory's theorem, convex hulls

Johan Jensen

Match letter: ____

Jensen's inequality, entropy as convexity gap

Thomas J. Stieltjes

Match letter: ____

Stieltjes transform in spectral analysis

Augustin-Louis Cauchy

Match letter: ____

Cauchy-Schwarz inequality, heavy tails

Andrey Kolmogorov

Match letter: ____

Probability foundations, Kolmogorov distance

Hermann Weyl

Match letter: ____

Weyl eigenvalue perturbation inequality

Pafnuty Chebyshev

Match letter: ____

Chebyshev inequality, variance-to-tail bounds

Pierre-Simon Laplace

Match letter: ____

Laplace transform, Chernoff method

Norbert Wiener

Match letter: ____

Wiener process, Brownian motion

Robert Fano

Match letter: ____

Fano's inequality for minimax lower bounds

Andrey Markov

Match letter: ____

Markov inequality, moment methods

Eugene Wigner

Match letter: ____

Wigner matrices, semicircle law

Joseph Fourier

Match letter: ____

Fourier bases, orthogonal series regression

Hermann Minkowski

Match letter: ____

Minkowski inequality, Minkowski sums

An important note: This sheet is meant as a playful memory game. The math still matters more than the portraits!