

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

The Face Alphabet: Answer Key

Portraits only of (some of the) non-living figures used in the course.

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|---|---|
| A. Joseph Fourier — Fourier bases, orthogonal series regression | N. Norbert Wiener — Wiener process. Brownian motion |
| B. Sergei Sobolev — Sobolev smoothness classes, embedding theorems | O. Hermann Weyl — Weyl eigenvalue perturbation inequality |
| C. Lucien Le Cam — Le Cam's method for minimax lower bounds | P. Francesco Paolo Cantelli — Cantelli inequality, Glivenko-Cantelli theorem |
| D. Andrey Kolmogorov — Probability foundations, Kolmogorov distance | Q. Pierre-Simon Laplace — Laplace transform, Chernoff method |
| E. Sergei Bernstein — Bernstein inequalities, Bernstein polynomials | R. Andrey Markov — Markov inequality, moment methods |
| F. Hermann Minkowski — Minkowski inequality, Minkowski sums | S. Otto Hölder — Hölder inequality, dual norms, Hölder continuity |
| G. Pafnuty Chebyshev — Chebyshev inequality, variance-to-tail bounds | T. Augustin-Louis Cauchy — Cauchy-Schwarz inequality, heavy tails |
| H. David Hilbert — Hilbert spaces, RKHS geometry | U. Thomas Bayes — Bayesian decision viewpoint, Bayes risk |
| I. Hans Rademacher — Rademacher variables, processes, and complexity | V. Robert Fano — Fano's inequality for minimax lower bounds |
| J. Johan Jensen — Jensen inequality, entropy as convexity gap | W. Ferdinand Frobenius — Frobenius norm, matrix variance scales |
| K. Constantin Carathéodory — Caratheodory theorem, convex hulls | X. Thomas J. Stieltjes — Stieltjes transform in spectral analysis |
| L. Eugene Wigner — Wigner matrices, semicircle law | Y. Carl Friedrich Gauss — Gaussian variables, Gaussian processes |
| M. Claude Shannon — Information, entropy, minimax lower bounds | Z. Henri Poincaré — Poincaré inequalities, variance bounds |