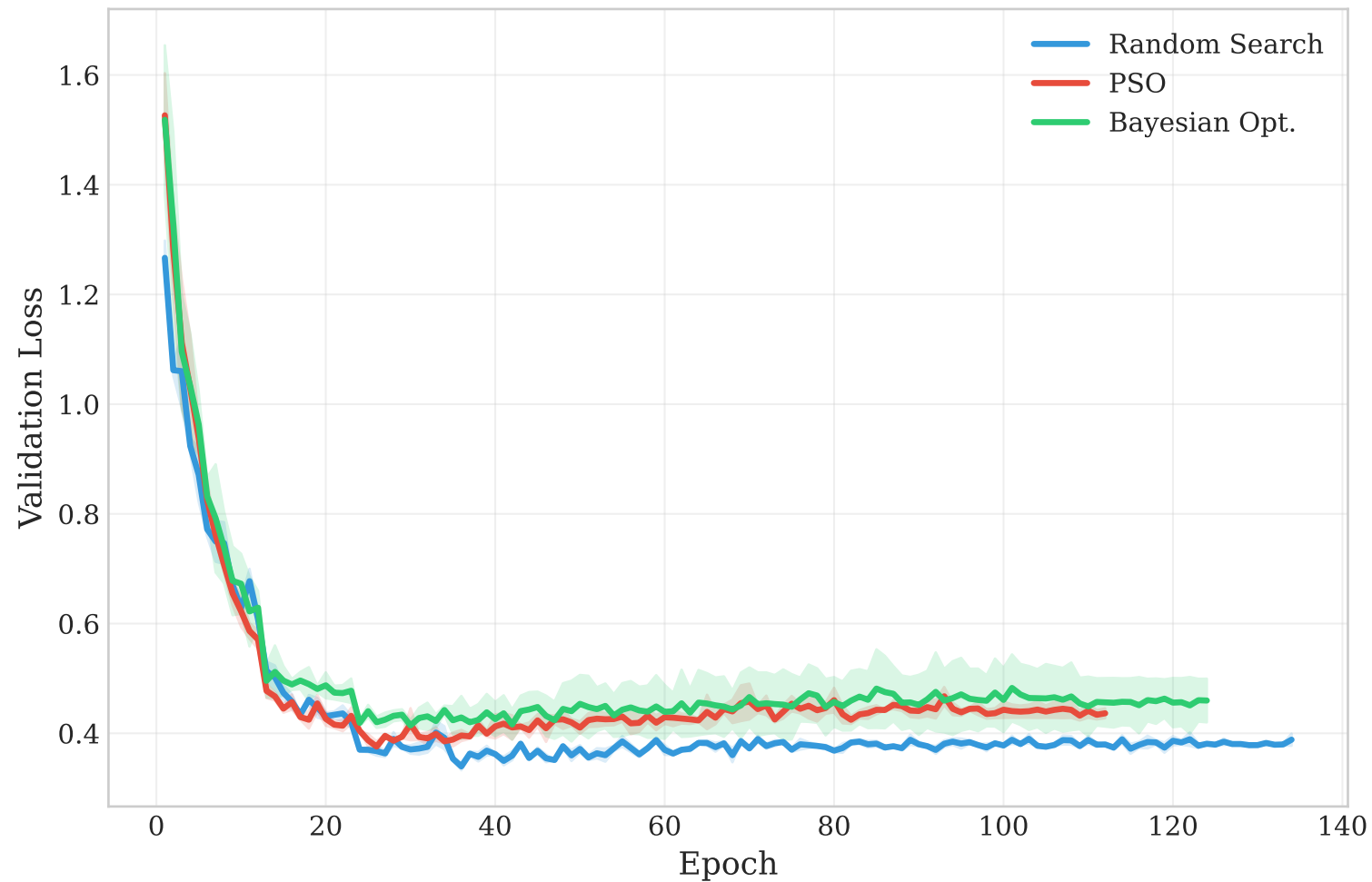**Best-Model Learning Curves — Mean ± Std over 3 Seeds**

**Validation Loss (mean ± std)**

**Validation Accuracy (mean ± std)**

- Random Search
- PSO
- Bayesian Opt.