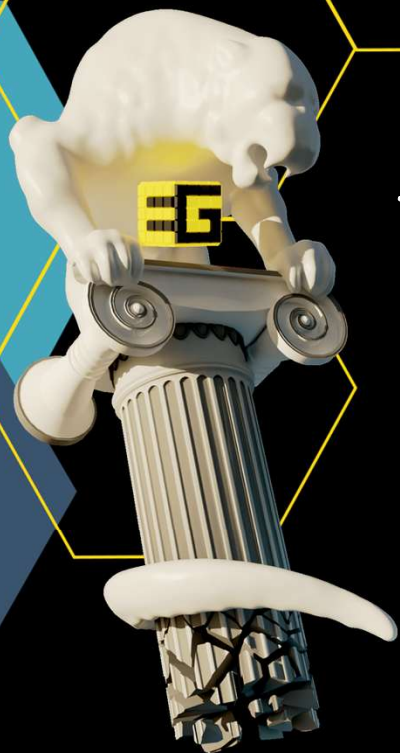


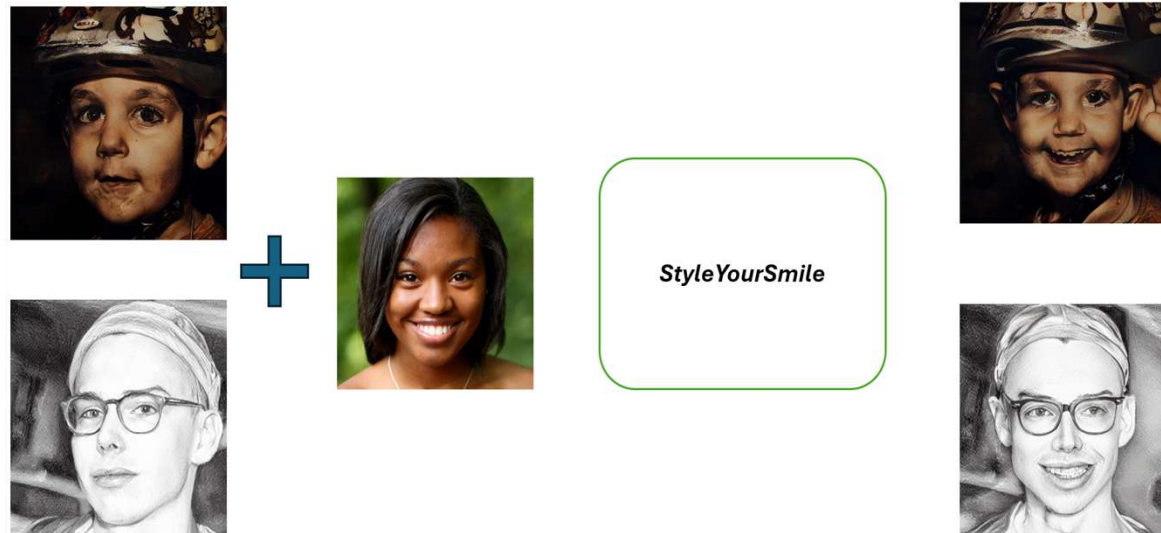


StyleYourSmile:
Diffusion-Driven One-Shot Cross-Domain
Retargeting for Portraits

Avirup Dey, Vinay Namboodiri
University of Bath

EUROGRAPHICS
AACHEN 2026

Retarget pose and expressions across domains



Why care?

- Retargeting is IMPORTANT for VFX in films, games, etc.
- Markerless is the future
- Cross-domain is difficult
 - ID markers tied with domain cues
 - Deformations expressed differently

Previous Methods

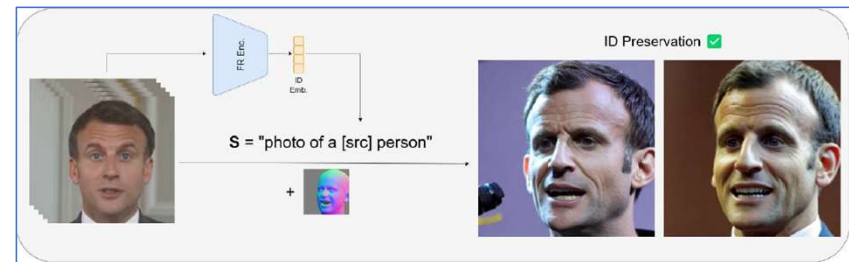
- Concept Learners

- IP-Adapter, Dreambooth, etc good for perceptual similarity
- Not good with fine-grained features tied to identity

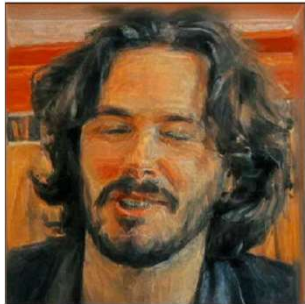


- ID learners

- Good with core identity markers
- Not good for retargeting; don't preserve non-ID features



Our Focus: Disentangle identity from domain style

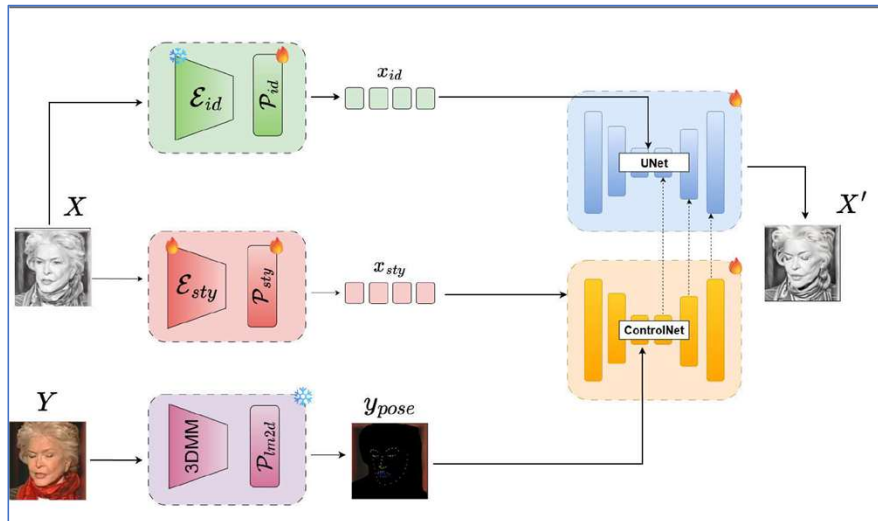


Components

- ID preservation
 - ID embeddings (more robust)
 - 3DMM shape coeffs.
- ‘Looks’ preservation
 - CLIP-based representations
 - Vision backbones rep.

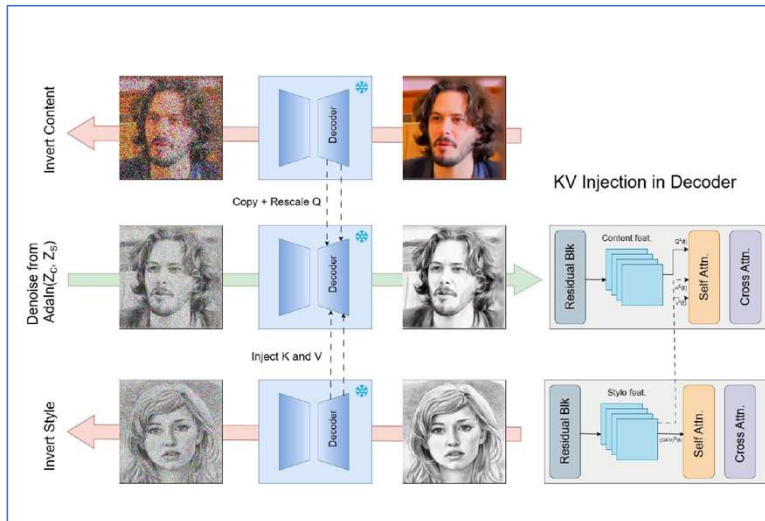
Multi-style data difficult to curate – ‘multiplexed’ with a quick training-free technique

Approach



- 2 complementary encoders
 - ID tokens via ID encoder
 - Style tokens via CLIP vision encoder
- Pose + Exp fed as landmarks from a 3DMM
- ControlNet as conditioning mechanism

Data Augmentation

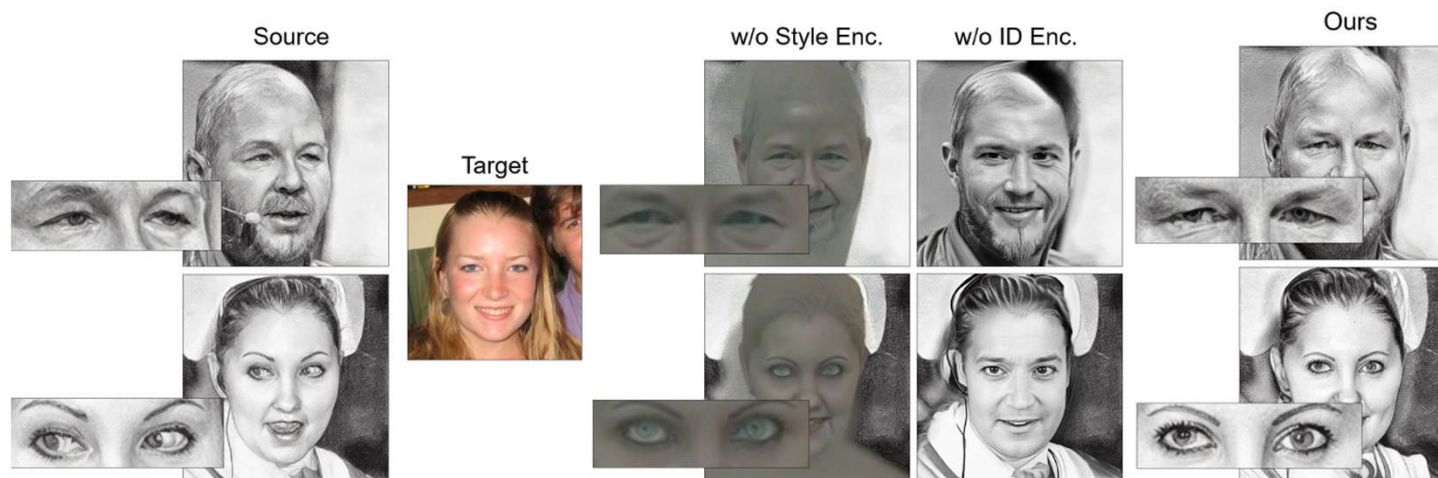


- **Style-Inject:** Descends from a long line of work based on KV manipulation
- Augment VoxCeleb frames with 6 different styles including paintings, vintage, sketches, etc
- >1 FPS on our setup – much faster than curating from ITW!

Results



What have the encoders learnt?



Limitations

- No temporal component (yet)
- Works on narrow domain gaps
- Occlusion handling ??
- Not evaluated against Ref-Nets





Thank you!

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[Read full paper here](#)

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